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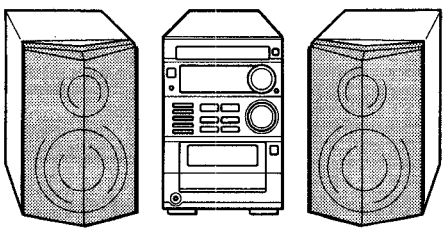
aiwa

aiwa SERVICE

XR-M35



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-1 R6
- BASIC CD MECHANISM: 3ZG-3 E1
- TYPE: U,LH

SERVICE MANUAL

S/M Code No. 09-985-257-9O2

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SPECIFICATIONS

Main unit XR-M35

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

Amplifier section

Power output	U: 25 watts per channel, Min. RMS at 6 ohms, from 60 Hz to 15 kHz, with no more than 1% Total Harmonic Distortion LH: 30 W + 30 W (6 ohms, T.H.D. 10%, 1kHz)
Total harmonic distortion	0.08 % (15 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 400 mV MD: 400 mV
Outputs	SUPER WOOFER: 1.4 V SPEAKERS: accept speakers of 6 ohms or more LINE OUT: 1.4 V PHONES (stereo minijack): accepts headphones of 16 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	62 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck: Recording/playback/erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	94 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

Speaker system SX-M35

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 130 mm (5 1/8 in.) cone type Tweeter: 60 mm (2 3/8 in.) cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	155 × 260 × 245 mm (6 1/8 × 10 1/4 × 9 3/4 in.)
Weight	2.5 kg (5 lbs 8 oz.)

General

Power requirements	U: 120 V AC, 60 Hz LH: 120/220-240V AC, switchable 50/60 Hz
Power consumption	U: 50 W LH: 70 W
Dimensions of main unit (W × H × D)	175 × 260 × 277 mm (7 × 10 1/4 × 11 in.)
Weight of main unit	4.3 kg (9 lbs 8 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧏⧐ are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound,Inc.
  Under license from BBE Sound,Inc.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO		PART NO.	KANRI NO.	DESCRIPTION
	1	88-CL3-902-010		IB,LH(ESP)C<LH>
	1	88-CL3-903-010		IB,U(ESF)C<U>
	2	88-CL4-951-010		RC UNIT,RC-8AT02
	3	87-A90-030-010		ANT,LOOP AM-NC C
	4	87-043-115-010		ANT,FEEDER FM
⚠	5	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<LH>

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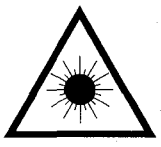
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

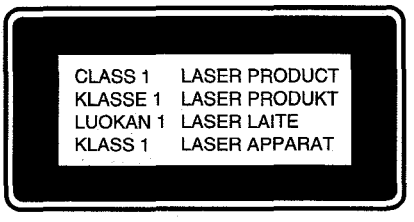
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

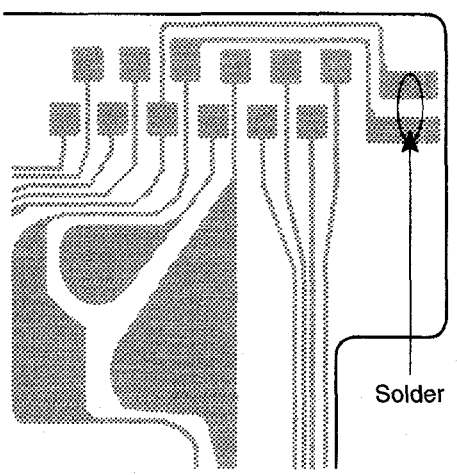


Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



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NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, the secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connector the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased 1 V or less using a multimeter or an oscilloscope.

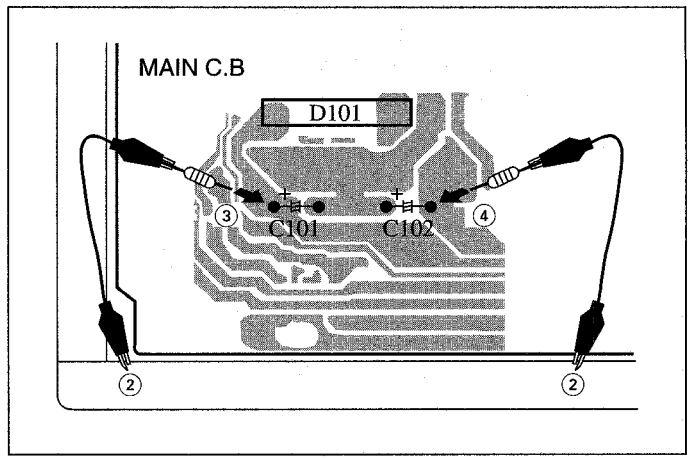

Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitor on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the $\overline{\text{HOLD}}$ terminal of the MICROCOMPUTER

When the $\overline{\text{HOLD}}$ terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the $\overline{\text{HOLD}}$ terminal before exchange.
When the MICROCOMPUTER is not defective, the $\overline{\text{HOLD}}$ terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the $\overline{\text{HOLD}}$ terminal to "L".

- Good or no good judgment of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the $\overline{\text{HOLD}}$ terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the $\overline{\text{HOLD}}$ terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

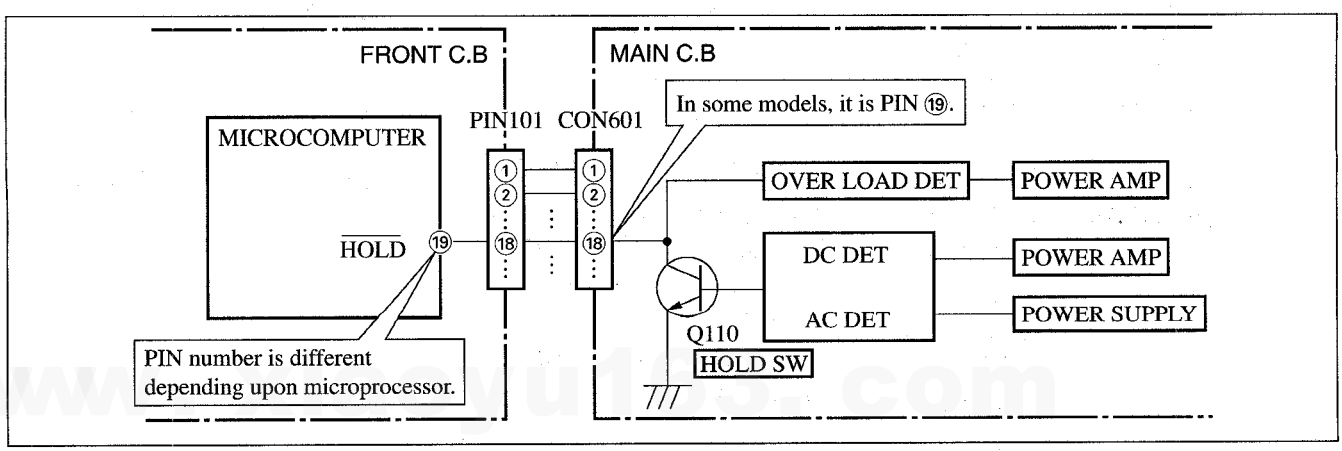

Fig-2-1

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In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can leads to wrong judgment as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

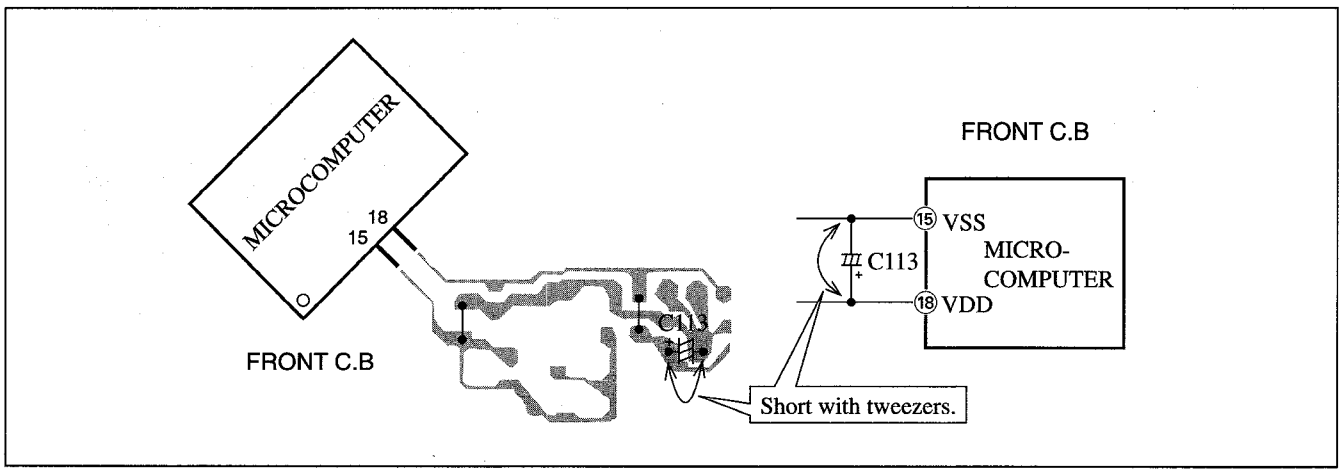


Fig-2-2

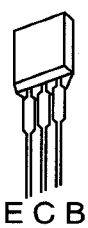
② Short the both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

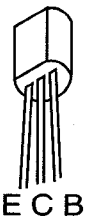
2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

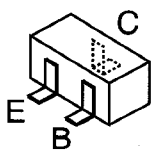
TRANSISTOR ILLUSTRATION



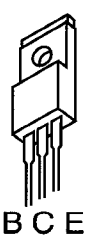
2SA933S
2SC5395



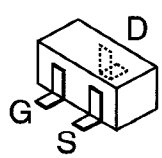
2SA952
2SC1815
2SD655
C2N5551
CSB1058
CSD655
CSD1489
KTA1266
KTC3198



2SA1235
2SC2714
2SC3052
CMBT5401
CMBT5551
DTA143EK
DTA144TK
DTC114TK
DTC144EK
KTA1298
RT1N144C
RT1P141C
RT1P144C
RT1P441C



2SB1481
2SD2241



2SK2158

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ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-446-010		C-IC,LA9241ML
	87-020-454-010		IC,DN6851
	87-A20-187-010		IC,LC78622E
	87-A20-157-010		IC,TA2092N
	87-001-536-010		IC,NJM78M05FA
	87-001-982-010		IC,TA7291S
	88-CE3-601-010		C-IC,LC866448W
	87-NF8-614-010		IC,SPS-442-1-W
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-070-289-040		IC,BU 2092F
	87-017-804-010		IC,BU4052BCP
	87-001-607-080		IC,NJM4558M
	87-A20-056-010		IC,BA3880S
	87-A20-715-010		IC,M62439SP
	87-017-915-080		IC,BU4094BCF
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
TRANSISTOR			
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-239-080		TR,DTC114TK (0.2W)
	87-026-297-080		TR,DTA144TK
	89-109-521-080		TR,2SA952 (0.6W)
	89-318-155-080		TR,2SC1815 (0.4W)
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-083-080		TR,CSD1489B
	87-026-609-080		TR,KTA1266GR
	87-A30-152-080		TR,2SC5395F
	89-111-625-080		TR,2SA1162 (0.15W)<U>
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-075-080		C-TR,2SA1235F
	87-A30-076-080		C-TR,2SC3052F
	87-A30-112-080		TR,C2N5551
	87-A30-130-010		TR,2SD2241
	87-A30-128-010		TR,2SB1481
	87-A30-106-070		C-TR,CMBT5551
	87-A30-107-070		C-TR,CMBT5401
	87-A30-087-080		C-FET,2SK2158
	87-A30-047-080		TR,CSD655E
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-084-080		TR,CSB1058B
	87-A30-072-080		C-TR,RT1P 144C
	89-406-555-080		TR,2SD655 (0.5W)
	87-026-210-080		CHIP-TR,DTC144EK
	89-327-143-080		TR,2SC2714 (0.1W)
DIODE			
	87-A40-291-080		DIODE,1N4148 (CPT)
	87-070-178-090		DIODE,1N5402-BD54
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-312-080		ZENER,DZ33M
	87-070-345-080		DIODE,IN4148
	87-A40-308-080		ZENER,DZ10M
	87-A40-304-080		ZENER,DZ6.2M
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-020-339-080		CHIP DIODE,1SS226
	87-A40-292-080		ZENER,DZ2.7L
	87-A40-234-080		ZENER,MTZJ5.6A
MAIN C.B			
C101	87-A10-627-090		CAP,E 2200-50 M SMG
C104	87-A10-627-090		CAP,E 2200-50 M SMG
C105	87-012-140-080		CAP 470P
C106	87-010-408-040		CAP,E 47-50 SME
C107	87-010-384-040		CAP,E 100-25 SME
C108	87-010-381-080		CAP, ELECT 330-16V
C113	87-010-403-080		CAP, ELECT 3.3-50V
C171	87-010-384-040		CAP,E 100-25 SME<U>
C207	87-010-546-040		CAP,E 0.33-50
C208	87-010-546-040		CAP,E 0.33-50
C209	87-010-186-080		CAP,CHIP 4700P
C210	87-010-186-080		CAP,CHIP 4700P
C211	87-010-403-040		CAP,E 3.3-50 SME
C212	87-010-403-040		CAP,E 3.3-50 SME
C213	87-010-260-040		CAP,E 47-25 SME
C214	87-010-260-040		CAP,E 47-25 SME
C217	87-010-195-080		C-CAP,S 0.068-25 F
C218	87-010-195-080		C-CAP,S 0.068-25 F
C219	87-010-544-080		CAP, ELECT 0.1-50V
C220	87-010-544-080		CAP, ELECT 0.1-50V
C221	87-010-182-080		C-CAP,S 2200P-50 B
C222	87-010-182-080		C-CAP,S 2200P-50 B
C227	87-010-408-040		CAP,E 47-50 SME
C229	87-010-322-080		C-CAP,S 100P-50 CH
C230	87-010-322-080		C-CAP,S 100P-50 CH
C235	87-012-368-080		C-CAP,S 0.1-50 F
C236	87-012-368-080		C-CAP,S 0.1-50 F
C237	87-010-182-080		C-CAP,S 2200P-50 B
C261	87-010-197-080		CAP, CHIP 0.01 DM
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C315	87-010-181-080		CAP,CHIP S 1800P
C316	87-010-181-080		CAP,CHIP S 1800P
C317	87-012-142-080		CAP, S 0.33-16
C318	87-012-142-080		CAP, S 0.33-16
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-179-080		CAP,CHIP S B1200P
C372	87-010-179-080		CAP,CHIP S B1200P
C373	87-010-179-080		CAP,CHIP S B1200P
C374	87-010-179-080		CAP,CHIP S B1200P
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-010-154-080		CAP CHIP 10P
C399	87-010-407-080		CAP, ELECT 33-50V
C506	87-010-384-080		CAP, ELECT 100-25V
C521	87-010-401-080		CAP, ELECT 1-50V
C522	87-010-401-080		CAP, ELECT 1-50V
C523	87-012-154-080		C-CAP,S 150P-50 CH
C524	87-012-154-080		C-CAP,S 150P-50 CH
C525	87-012-154-080		C-CAP,S 150P-50 CH
C526	87-012-154-080		C-CAP,S 150P-50 CH
C527	87-010-401-080		CAP, ELECT 1-50V
C528	87-010-401-080		CAP, ELECT 1-50V
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-381-080		CAP, ELECT 330-16V
C535	87-010-197-080		CAP, CHIP 0.01 DM
C540	87-010-196-080		CHIP CAPACITOR,0.1-25
C541	87-010-196-080		CHIP CAPACITOR,0.1-25
C542	87-010-405-080		CAP, ELECT 10-50V
C561	87-010-180-080		C-CER 1500P
C562	87-010-180-080		C-CER 1500P
C581	87-010-404-080		CAP, ELECT 4.7-50V
C582	87-010-404-080		CAP, ELECT 4.7-50V
C601	87-010-178-080		CHIP CAP 1000P
C602	87-010-178-080		CHIP CAP 1000P
C603	87-010-401-080		CAP, ELECT 1-50V
C604	87-010-401-080		CAP, ELECT 1-50V
C605	87-010-260-080		CAP, ELECT 47-25V
C606	87-010-101-080		CAP, ELECT 220-16
C607	87-010-188-080		CAP,CHIP 6800P
C608	87-010-188-080		CAP,CHIP 6800P
C609	87-012-140-080		CAP 470P
C610	87-012-140-080		CAP 470P
C611	87-010-197-080		CAP, CHIP 0.01 DM
C612	87-010-197-080		CAP, CHIP 0.01 DM
C613	87-010-195-080		C-CAP,S 0.068-25 F
C614	87-010-195-080		C-CAP,S 0.068-25 F
C615	87-010-404-080		CAP, ELECT 4.7-50V
C616	87-010-404-080		CAP, ELECT 4.7-50V
C617	87-010-404-080		CAP, ELECT 4.7-50V
C618	87-010-404-080		CAP, ELECT 4.7-50V
C620	87-010-234-080		CAP 47-16
C621	87-010-196-080		CHIP CAPACITOR,0.1-25
C622	87-010-322-080		C-CAP,S 100P-50 CH
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C633	87-010-213-080		C-CAP,S 0.015-50 B
C634	87-010-213-080		C-CAP,S 0.015-50 B
C635	87-010-400-080		CAP, ELECT 0.47-50V
C636	87-010-400-080		CAP, ELECT 0.47-50V
C637	87-010-545-080		CAP, ELECT 0.22-50V
C638	87-010-545-080		CAP, ELECT 0.22-50V
C639	87-010-408-080		CAP, ELECT 47-50V
C640	87-010-408-080		CAP, ELECT 47-50V
C641	87-010-401-080		CAP, ELECT 1-50V
C642	87-010-401-080		CAP, ELECT 1-50V
C643	87-010-154-080		CAP CHIP 10P
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C709	87-010-322-080		C-CAP,S 100P-50 CH
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C721	87-010-312-080		C-CAP,S 15P-50 CH

REF NO	PART NO.	KANRI NO.	DESCRIPTION
C722	87-010-312-080		C-CAP,S 15P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C755	87-010-197-080		CAP, CHIP 0.01 DM
C756	87-010-197-080		CAP, CHIP 0.01 DM
C757	87-010-318-080		C-CAP,S 47P-50 CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25
C762	87-010-197-080		CAP, CHIP 0.01 DM
C763	87-010-194-080		CAP, CHIP 0.047
C765	87-010-197-080		CAP, CHIP 0.01 DM
C766	87-010-197-080		CAP, CHIP 0.01 DM
C767	87-010-405-080		CAP, ELECT 10-50V
C768	87-010-197-080		CAP, CHIP 0.01 DM
C769	87-010-408-080		CAP, ELECT 47-50V
C770	87-015-821-080		C-CAP 0.047
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-194-080		CAP, CHIP 0.047
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-010-197-010		CAP, S 0.01-25
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-403-080		CAP, ELECT 3.3-50V
C786	87-010-403-080		CAP, ELECT 3.3-50V
C787	87-010-184-080		CHIP CAPACITOR 3300P(K)
C788	87-010-184-080		CHIP CAPACITOR 3300P(K)
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-010-178-080		CHIP CAP 1000P
C794	87-010-403-080		CAP, ELECT 3.3-50V
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-406-080		CAP, ELECT 22-50
C797	87-010-182-080		C-CAP,S 2200P-50 B
C798	87-010-182-080		C-CAP,S 2200P-50 B
C799	87-010-194-080		CAP, CHIP 0.047
C812	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-408-080		CAP, ELECT 47-50V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
⚠F201	87-A90-113-080		PROTECTOR,4A 251
⚠F202	87-A90-113-080		PROTECTOR,4A 251
FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC
J201	87-A60-420-010		JACK,3.5 ST (MSC)
J202	87-099-801-010		JACK,PIN 1P BLK
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J501	82-MA2-631-010		JACK PIN 4P RVS
J502	80-MT3-616-010		JACK,PIN 2P
J801	87-033-239-010		TERMINAL,HSP-154V-2
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L770	87-005-847-080		COIL,2.2UH(CECS)
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L791	87-A50-209-010		COIL,1POLE MPX(MIT)
L792	87-A50-209-010		COIL,1POLE MPX(MIT)
L832	86-NFZ-694-080		COIL,2.2UH K CECS
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)
⚠PR201	87-A90-094-080		PROTECTOR,4A 491SERIES 60V<LH>
⚠PR202	87-A90-094-080		PROTECTOR,4A 491SERIES 60V<LH>
R223	87-A00-258-080		RES,M/F 0.22-1W J
R224	87-A00-258-080		RES,M/F 0.22-1W J
R249	87-A00-258-080		RES,M/F 0.22-1W J
R250	87-A00-258-080		RES,M/F 0.22-1W J
SFR303	87-A90-557-080		SFR,33K H HOKU
SFR304	87-A90-557-080		SFR,33K H HOKU
SFR305	87-A90-637-080		SFR,47K H RH0638C LG
SFR306	87-A90-637-080		SFR,47K H RH0638C LG
SFR351	87-A90-637-080		SFR,47K H RH0638C LG
SFR352	87-A90-637-080		SFR,47K H RH0638C LG
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
FR C.B			
C200	87-010-312-080		C-CAP,S 15P-50 CH
C202	87-010-316-080		C-CAP,S 33P-50 CH
C205	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C206	87-A10-189-040		CAP,E 220-10
C221	87-010-405-040		CAP,E 10-50
C222	87-010-178-080		CHIP CAP 1000P
C241	87-010-071-040		CAP,E 1-50 5L
C242	87-A10-116-040		CAP,E 330-6.3 GAS
C243	87-010-196-080		CHIP CAPACITOR,0.1-25
C245	87-010-264-040		CAP,E 100-10 5L
C246	87-010-197-080		CAP, CHIP 0.01 DM
C247	87-010-067-040		CAP,E 0.1-50 5L
C248	87-018-132-080		CAP, CER 2200P-16V
C311	87-010-421-040		CAP,E 4.7-50 5L
C312	87-010-421-040		CAP,E 4.7-50 5L
C313	87-010-408-080		CAP, ELECT 47-50V
C521	87-015-819-080		CAPACITOR,0.01
C522	87-010-322-080		C-CAP,S 100P-50 CH
CN401	88-802-091-420		CONN ASSY,9P RED
D503	87-A40-276-080		LED,SML1816W UMB/GRN
D505	87-A40-276-080		LED,SML1816W UMB/GRN
D507	87-A40-276-080		LED,SML1816W UMB/GRN
D509	87-A40-276-080		LED,SML1816W UMB/GRN
D511	87-A40-276-080		LED,SML1816W UMB/GRN
D513	87-001-161-080		LED SEL2410E
D514	87-001-161-080		LED SEL2410E
D515	87-001-161-080		LED SEL2410E
D516	87-001-161-080		LED SEL2410E
D517	87-001-161-080		LED SEL2410E
D518	87-001-161-080		LED SEL2410E
FL301	88-CE3-602-010		FL,11BT-162GK
L201	87-A50-052-010		COIL,CLOCK 5.76MHZ T1
S301	87-A90-696-080		SW,TACT TS2103-03-430
S302	87-A90-696-080		SW,TACT TS2103-03-430
S303	87-A90-696-080		SW,TACT TS2103-03-430
S304	87-A90-696-080		SW,TACT TS2103-03-430
S305	87-A90-696-080		SW,TACT TS2103-03-430
S306	87-A90-696-080		SW,TACT TS2103-03-430
S307	87-A90-696-080		SW,TACT TS2103-03-430
S321	87-A90-696-080		SW,TACT TS2103-03-430
S322	87-A90-696-080		SW,TACT TS2103-03-430
S323	87-A90-696-080		SW,TACT TS2103-03-430
S324	87-A90-696-080		SW,TACT TS2103-03-430
S325	87-A90-696-080		SW,TACT TS2103-03-430
S326	87-A90-696-080		SW,TACT TS2103-03-430
S327	87-A90-696-080		SW,TACT TS2103-03-430
S328	87-A90-696-080		SW,TACT TS2103-03-430
S371	87-A90-085-010		SW,RTRY EC16B 24204
S372	87-A90-535-010		SW,RTRY EC16B24304
CD C.B			
	84-ZG1-244-310		CABI,OPTICAL
C1	87-010-403-080		CAP, ELECT 3.3-50V
C2	87-010-197-080		CAP, CHIP 0.01 DM
C3	87-010-263-080		CAP, ELECT 100-10V
C4	87-010-248-080		CAP, ELECT 220-10V
C5	87-010-197-080		CAP, CHIP 0.01 DM
C6	87-010-374-080		CAP, ELECT 47-10V
C7	87-012-349-080		C-CAP,S 1000P-50 CH
C8	87-010-198-080		CAP, CHIP 0.022
C9	87-010-263-080		CAP, ELECT 100-10V
C10	87-010-263-080		CAP, ELECT 100-10V
C12	87-010-401-080		CAP, ELECT 1-50V
C13	87-010-197-080		CAP, CHIP 0.01 DM
C14	87-010-405-080		CAP, ELECT 10-50V
C16	87-010-545-080		CAP, ELECT 0.22-50V
C17	87-012-349-080		C-CAP,S 1000P-50 CH
C18	87-010-213-080		C-CAP,S 0.015-50 B
C20	87-010-193-080		CHIP CAPACITOR,0.033
C23	87-010-992-080		C-CAP,S 0.047-25 B
C29	87-010-186-080		CAP,CHIP 4700P
C30	87-012-156-080		C-CAP,S 220P-50 CH
C31	87-010-545-080		CAP, ELECT 0.22-50V
C32	87-010-374-080		CAP, ELECT 47-10V
C33	87-010-401-080		CAP, ELECT 1-50V
C34	87-010-182-080		C-CAP,S 2200P-50 B
C35	87-010-197-080		CAP, CHIP 0.01 DM
C36	87-010-374-080		CAP, ELECT 47-10V
C37	87-010-404-080		CAP, ELECT 4.7-50V
C38	87-010-196-080		CHIP CAPACITOR,0.1-25
C39	87-012-349-080		C-CAP,S 1000P-50 CH
C40	87-010-147-080		C-CAP,S 3P-50 CH
C42	87-010-314-080		C-CAP,S 22P-50V
C45	87-010-196-080		CHIP CAPACITOR,0.1-25
C46	87-010-196-080		CHIP CAPACITOR,0.1-25
C47	87-010-196-080		CHIP CAPACITOR,0.1-25
C48	87-010-315-080		C-CAP,S 27P-50 CH
C50	87-012-140-080		CAP 470P
C51	87-010-994-080		C-CAP,S 680P-50 CH
C57	87-010-316-080		C-CAP,S 33P-50 CH
C58	87-010-316-080		C-CAP,S 33P-50 CH
C59	87-010-263-080		CAP, ELECT 100-10V
C60	87-010-196-080		CHIP CAPACITOR,0.1-25
C61	87-010-196-080		CHIP CAPACITOR,0.1-25
C62	87-010-370-080		CAP,E 330-6.3 SME
C65	87-010-404-080		CAP, ELECT 4.7-50V
C66	87-010-196-080		CHIP CAPACITOR,0.1-25
C67	87-010-263-080		CAP, ELECT 100-10V
C68	87-010-322-080		C-CAP,S 100P-50 CH
C75	87-010-197-080		CAP, CHIP 0.01 DM
C76	87-A10-102-080		CAP,E 1000-10 REA
C77	87-010-263-080		CAP, ELECT 100-10V
C78	87-010-197-080		CAP, CHIP 0.01 DM
C79	87-010-197-080		CAP, CHIP 0.01 DM
C80	87-010-112-080		CAP, ELECT 100-16V
C81	87-010-405-080		CAP, ELECT 10-50V
C82	87-010-405-080		CAP, ELECT 10-50V
C83	87-010-181-080		CAP,CHIP S 1800P
C84	87-010-181-080		CAP,CHIP S 1800P
C90	87-010-197-080		CAP, CHIP 0.01 DM
C91	87-010-404-080		CAP, ELECT 4.7-50V
C92	87-010-387-080		CAP,E 470-25 SME
C93	87-010-197-080		CAP, CHIP 0.01 DM

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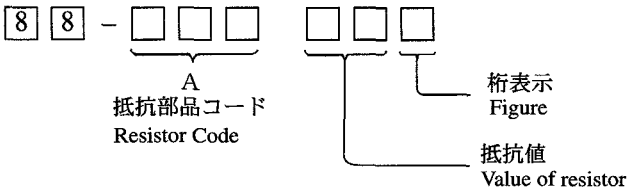
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C94	87-010-197-080		CAP, CHIP 0.01 DM
C95	87-010-197-080		CAP, CHIP 0.01 DM
C96	87-010-221-080		CAP, ELECT 470-10V
C97	87-010-197-080		CAP, CHIP 0.01 DM
C98	87-012-154-080		C-CAP,S 150P-50 CH
C101	87-010-322-080		C-CAP,S 100P-50 CH
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-322-080		C-CAP,S 100P-50 CH
C104	87-010-322-080		C-CAP,S 100P-50 CH
C105	87-010-322-080		C-CAP,S 100P-50 CH
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C150	87-010-263-080		CAP, ELECT 100-10V
C151	87-010-197-080		CAP, CHIP 0.01 DM
D150	87-A40-123-010		LED,SLZ-8128A-01-B
FC1	88-CE3-606-010		FF-CABLE, 16P 1.0 230MM
FC2	88-909-321-110		FF-CABLE, 9P 32MM
FC3	88-906-251-110		FF-CABLE,6P 1.25
FC4	88-906-141-110		FF-CABLE,6P 1.25
FC5	88-905-301-110		FF-CABLE, 5P 300MM
L1	87-003-102-080		COIL, 10UH
X1	87-030-270-080		VIB,XTAL 16.9344MHZ
PT-P C.B			
C103	87-010-928-090		CAP,E 4700-25 SMG
C109	87-010-260-080		CAP, ELECT 47-25V
C110	87-010-260-080		CAP, ELECT 47-25V
C111	87-010-247-080		CAP, ELECT 100-50V
C112	87-010-263-080		CAP, ELECT 100-10V
C122	87-010-260-080		CAP, ELECT 47-25V
C123	87-010-260-080		CAP, ELECT 47-25V
C167	87-010-196-080		CHIP CAPACITOR,0.1-25
C168	87-010-196-080		CHIP CAPACITOR,0.1-25
C169	87-010-196-080		CHIP CAPACITOR,0.1-25
C170	87-010-196-080		CHIP CAPACITOR,0.1-25
CNA103	88-CE3-644-010		CONN ASSY,5P 350MM PWR
⚠F101	87-026-690-080		FUSE,5A 125V 251<U>
⚠F101	87-026-681-080		PROTECTOR,5A 60V 491<LH>
⚠F102	87-026-690-080		FUSE,5A 125V 251<U>
⚠F102	87-026-681-080		PROTECTOR,5A 60V 491<LH>
⚠F103	87-026-690-080		FUSE,5A 125V 251<U>
⚠F103	87-026-681-080		PROTECTOR,5A 60V 491<LH>
⚠F104	87-026-690-080		FUSE,5A 125V 251<U>
⚠F104	87-026-681-080		PROTECTOR,5A 60V 491<LH>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
PT-S C.B			
⚠	87-A90-505-080		FUSE CLAMP,TP00351-51
⚠	87-A60-317-010		TERMINAL, 1P MSC
⚠F107	87-035-452-010		FUSE,1A 250V T W/C<LH>
⚠F107	87-035-484-010		FUSE 1.6A 125V D UL<U>
⚠PT101	88-CE3-617-010		PT,U<U>
⚠PT101	88-CE3-640-010		PT,LH<LH>
⚠SW101	87-A90-234-010		SW,SL 1-2-2 SW2201<LH>
DECK C.B			
PIN1	87-009-352-010		CONN,9P H WHT PH
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL1	82-ZM1-635-010		SOL ASSY,23
SW2	87-036-110-010		SW,MICRO SPPB62
SW3	87-036-110-010		SW,MICRO SPPB62
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
RELAY C.B			
CNA301	88-CE3-603-010		CONN ASSY,7P RPH
DRIVE C.B			
CN3	87-009-349-010		CONN,6P H WHT PH
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO
CD MOTOR C.B			
CN4	87-099-210-010		CONN,5P H BLK 6216
M1	87-045-305-010		MOT,RF-500TB
SW1	87-035-110-010		SW,MICRO SPPB62
SW2	87-035-110-010		SW,MICRO SPPB62

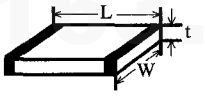
- コネクタについては、初回発注の扱いとはせず、受注後に業者へ発注し、供給致します。
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm) 外形 / Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

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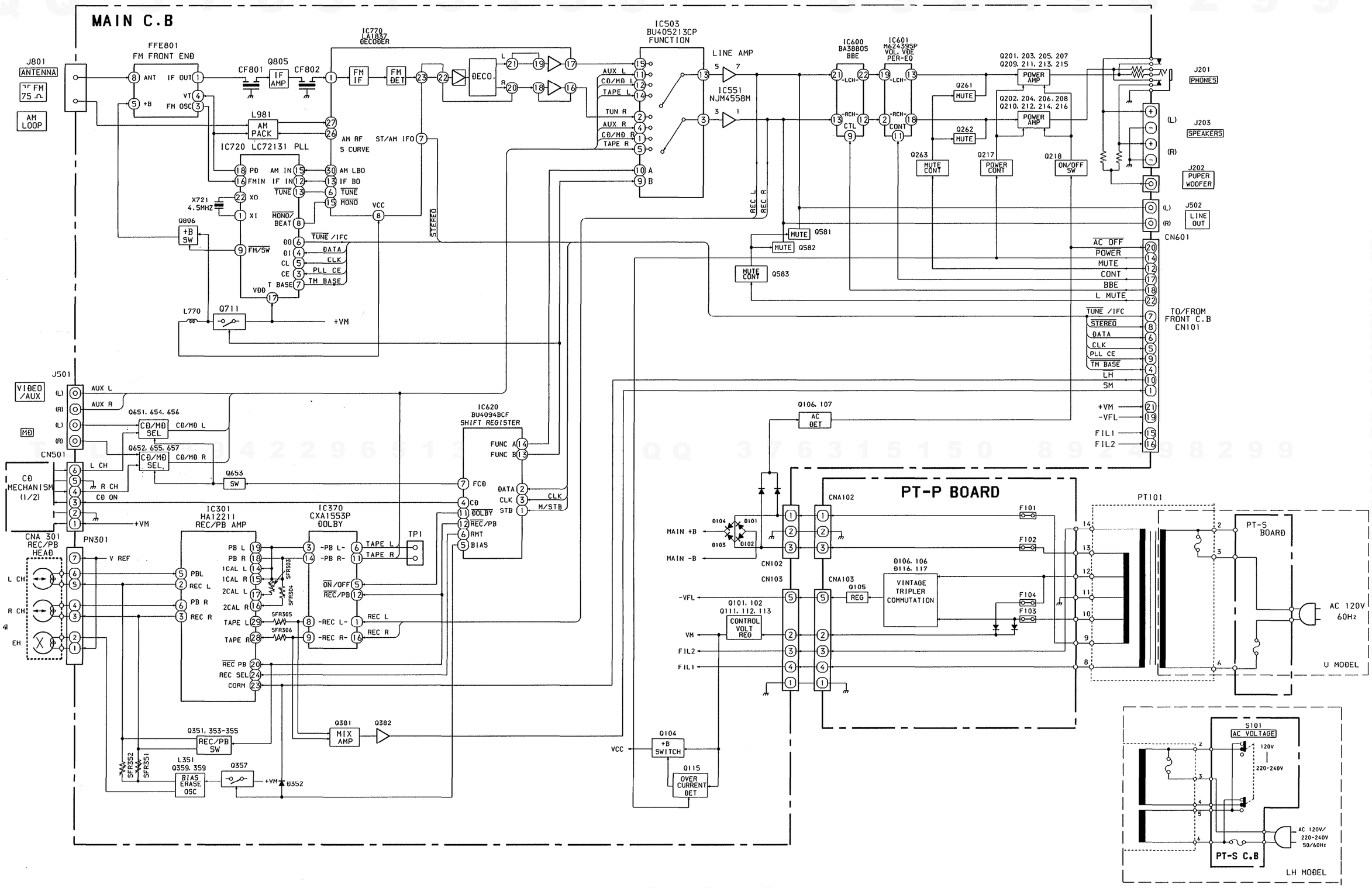
BLOCK DIAGRAM-1 (MAIN)



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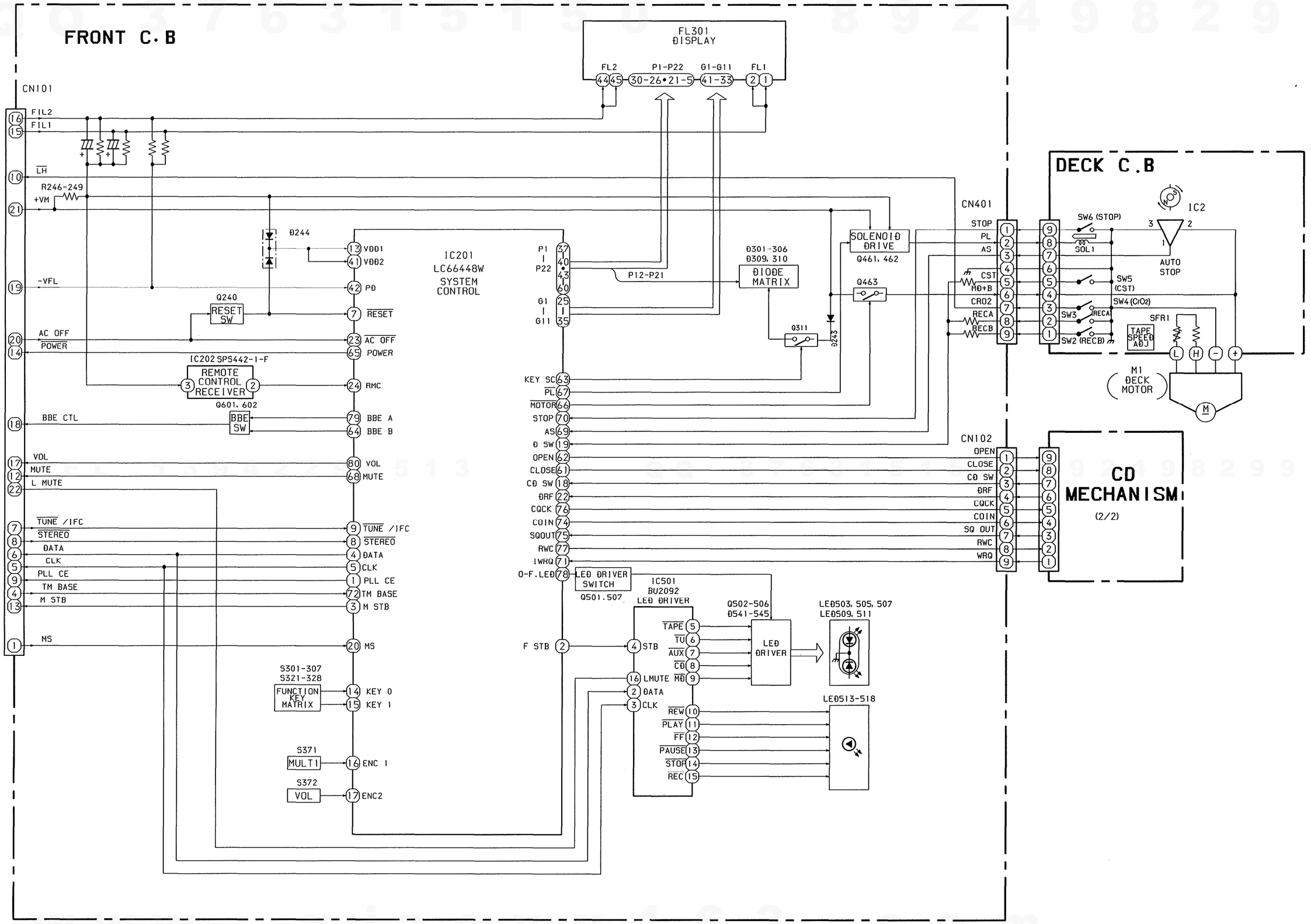
BLOCK DIAGRAM-2 (FRONT)



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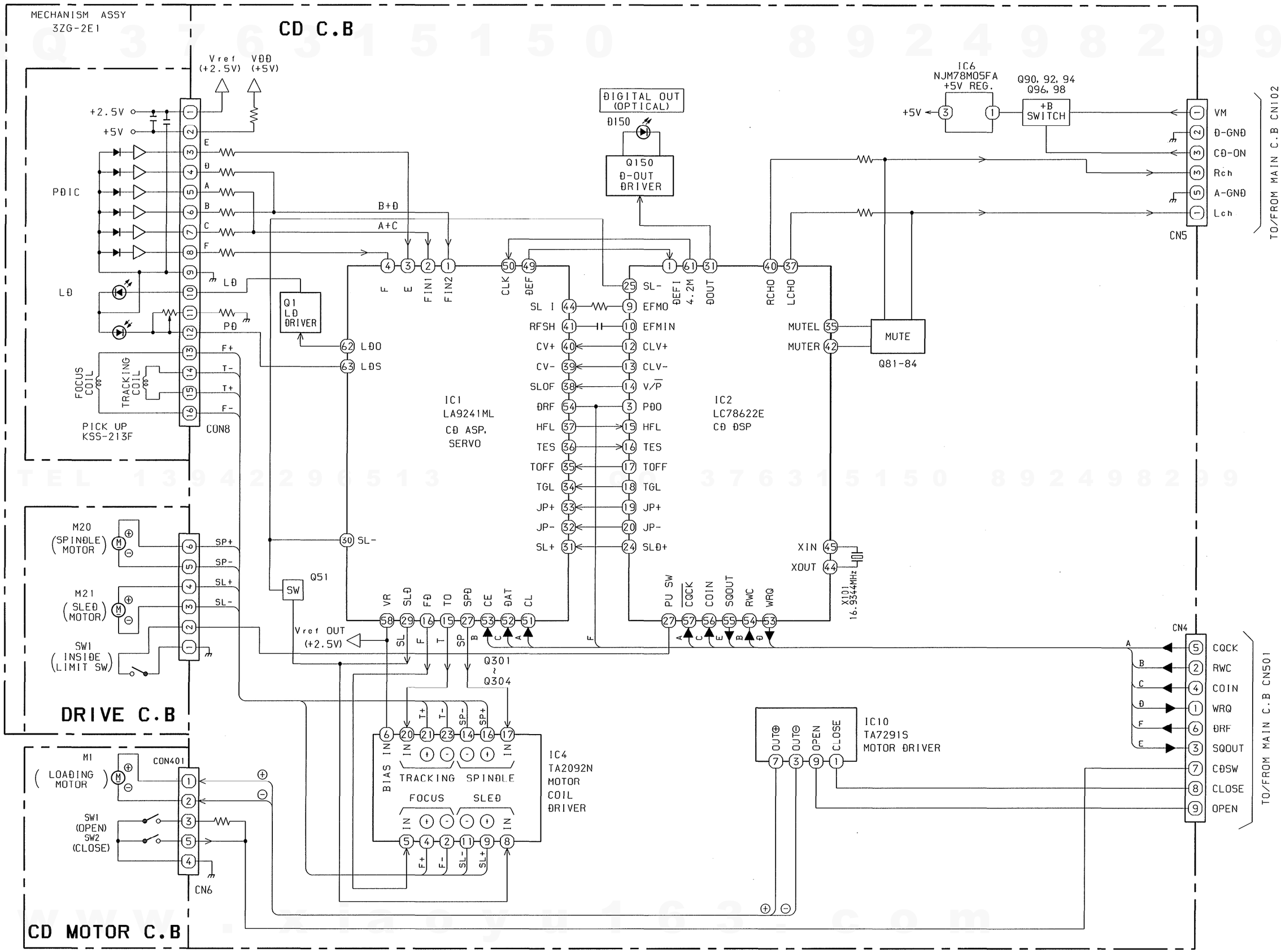
BLOCK DIAGRAM-3 (CD)



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MAIN C.B

J801 ANTENNA

AM LOOP

FM 75Ω

J501 MD R L

VIDEO /AUX R L

J502 LINE OUT R L

J203 SPEAKERS L R + −

J202 SUPER WOOFER

J201 PHONES

CN101 — TO/FROM FRONT C.B

CNA301 — TO/FROM RELAY C.B

TO CN501 — TO/FROM CD C.B CN5

TO CN102 — CNA102 — FROM PT-S C.B

TO CN103 — CNA103 — FROM PT-S C.B

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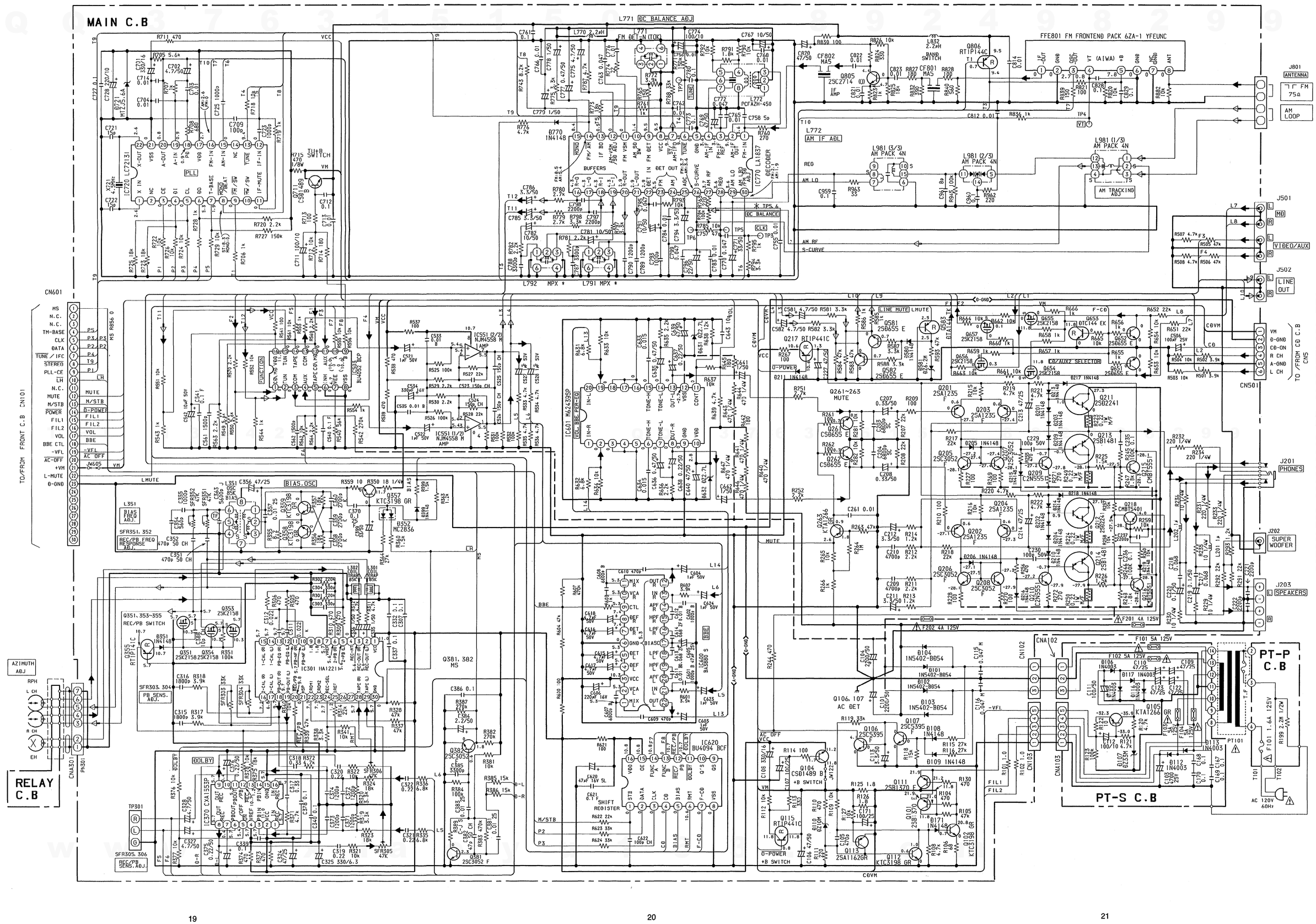
SCHEMATIC DIAGRAM-1 (MAIN: U)



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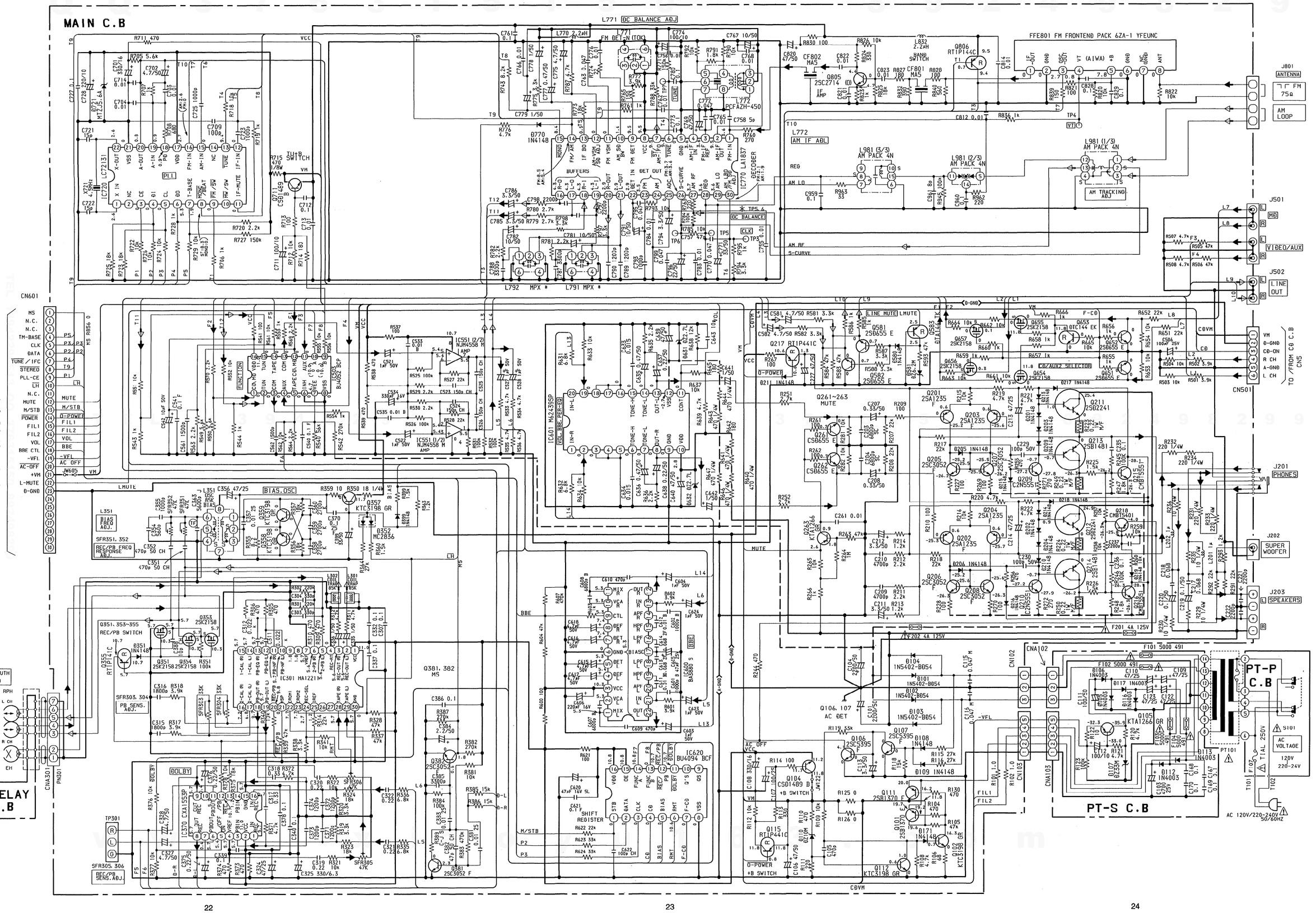
SCHEMATIC DIAGRAM-2 (MAIN: LH)



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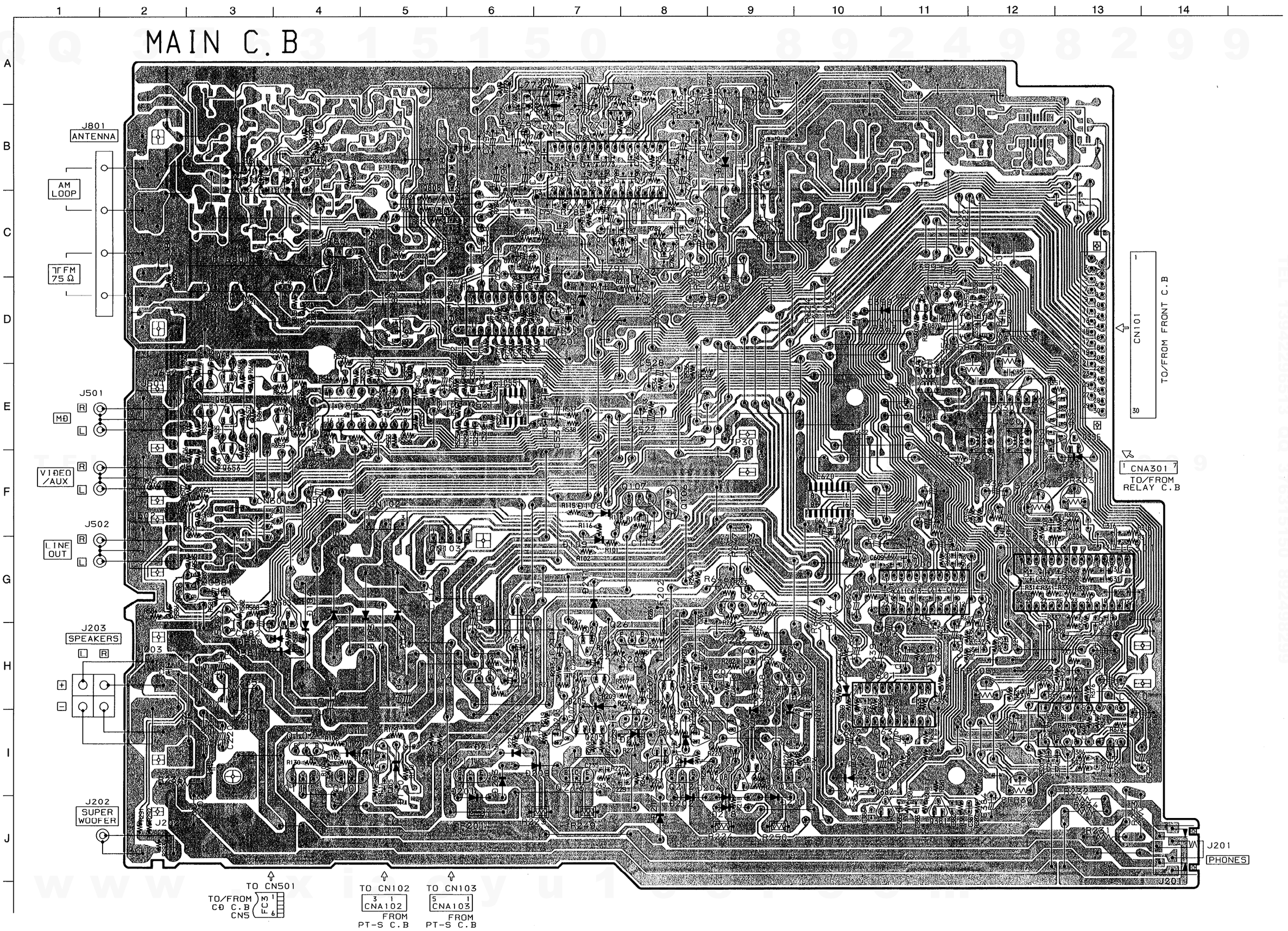
WIRING-2 (MAIN: LH)



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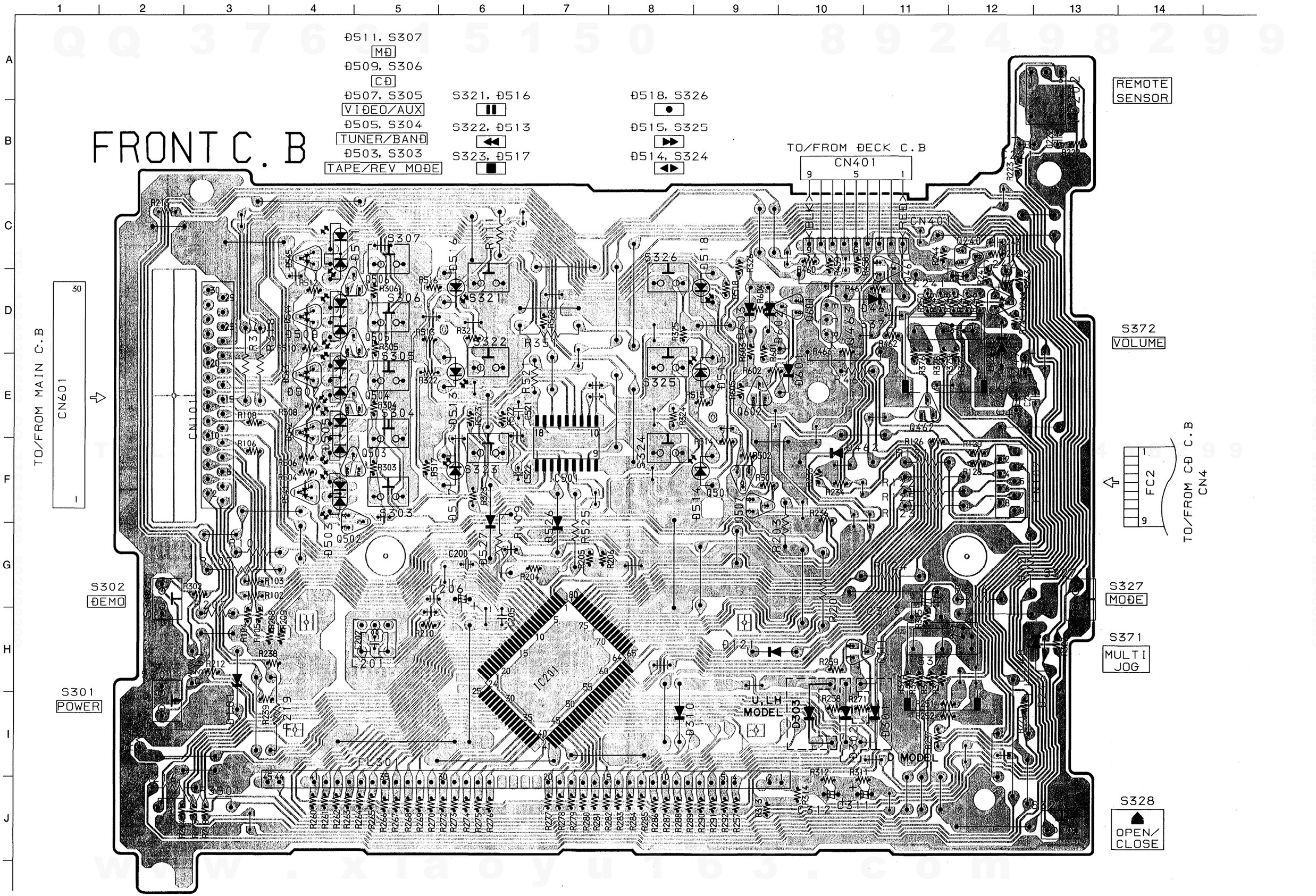
WIRING-3 (FRONT)



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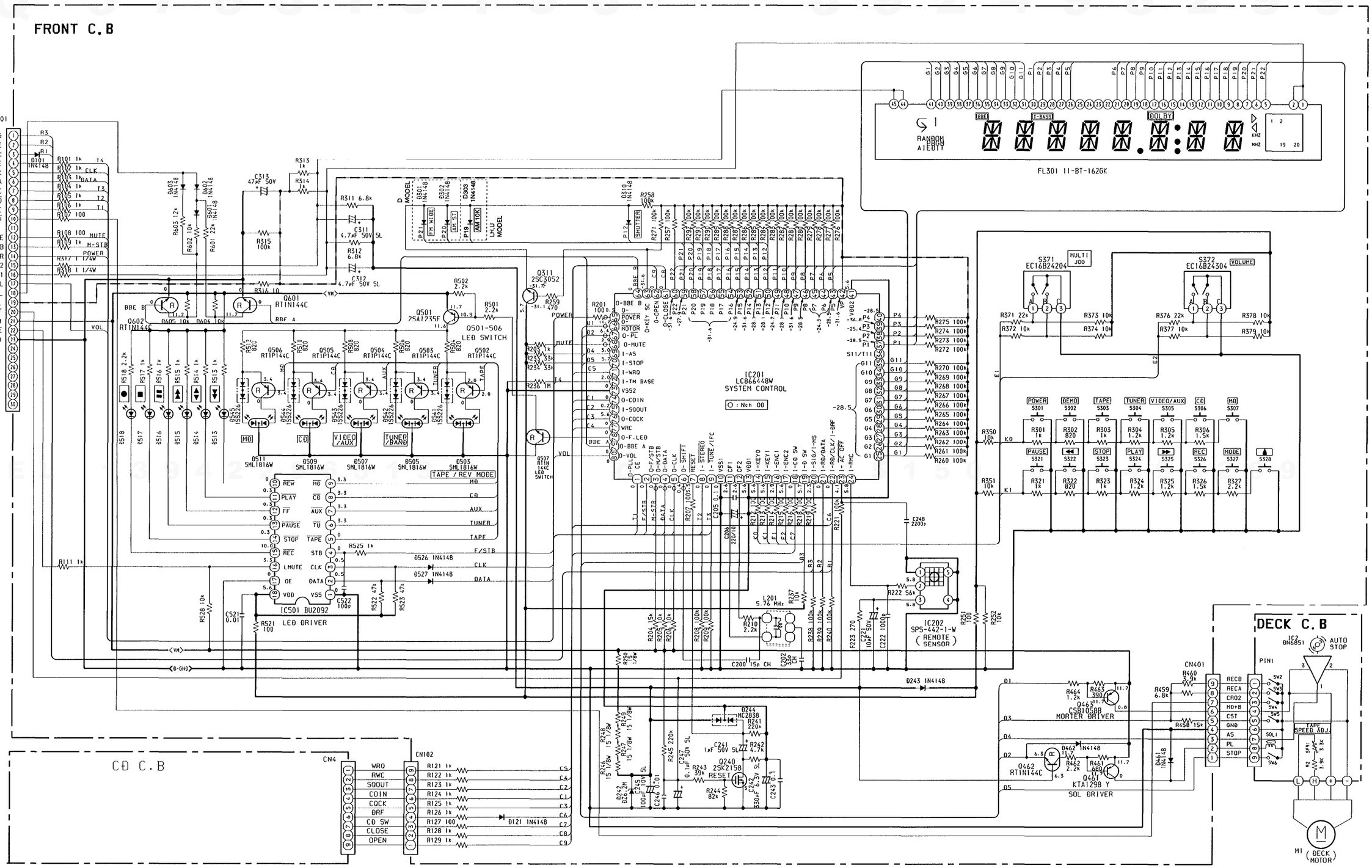
SCHEMATIC DIAGRAM-3 (FRONT)



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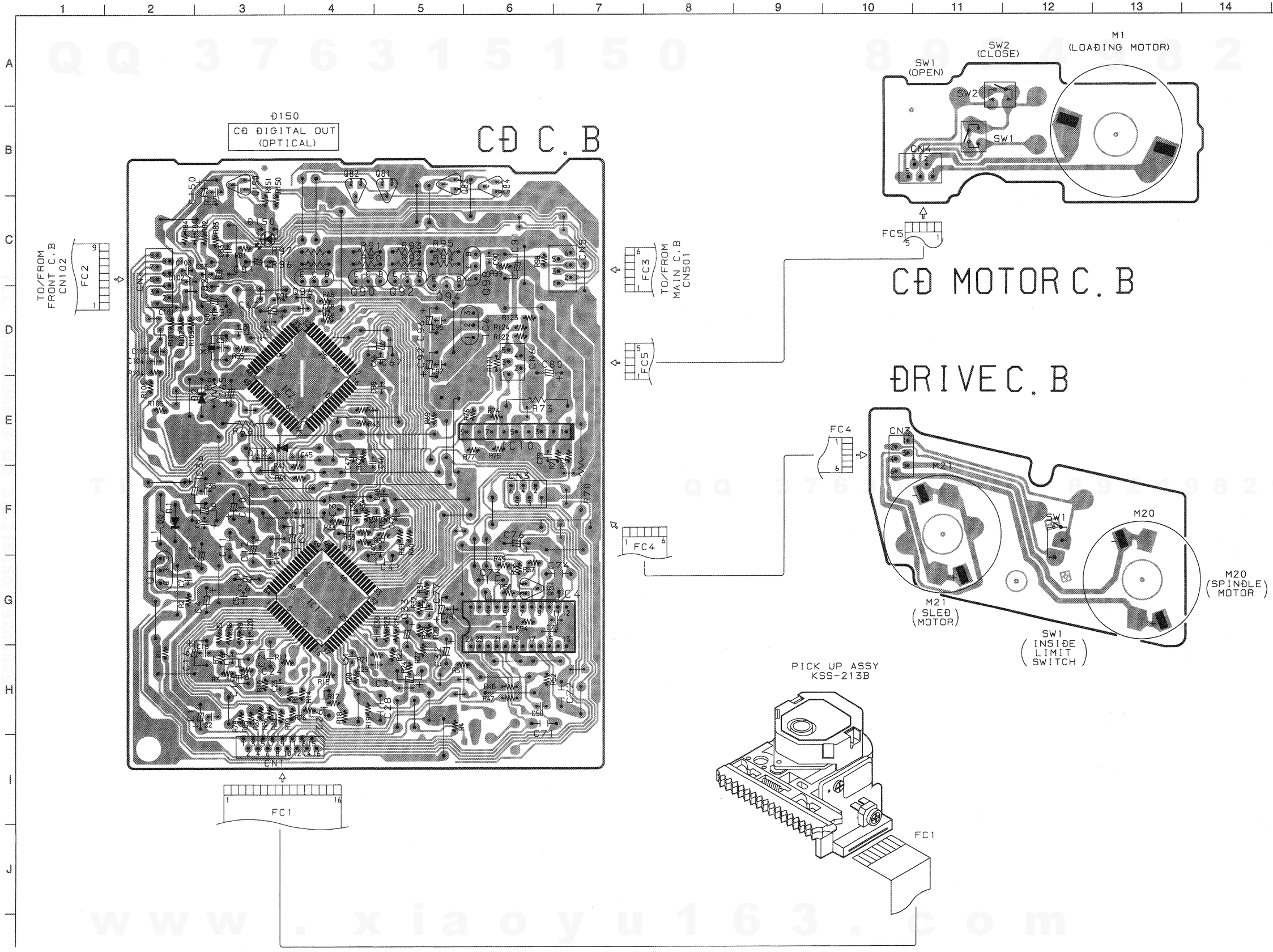
WIRING-4 (CD)



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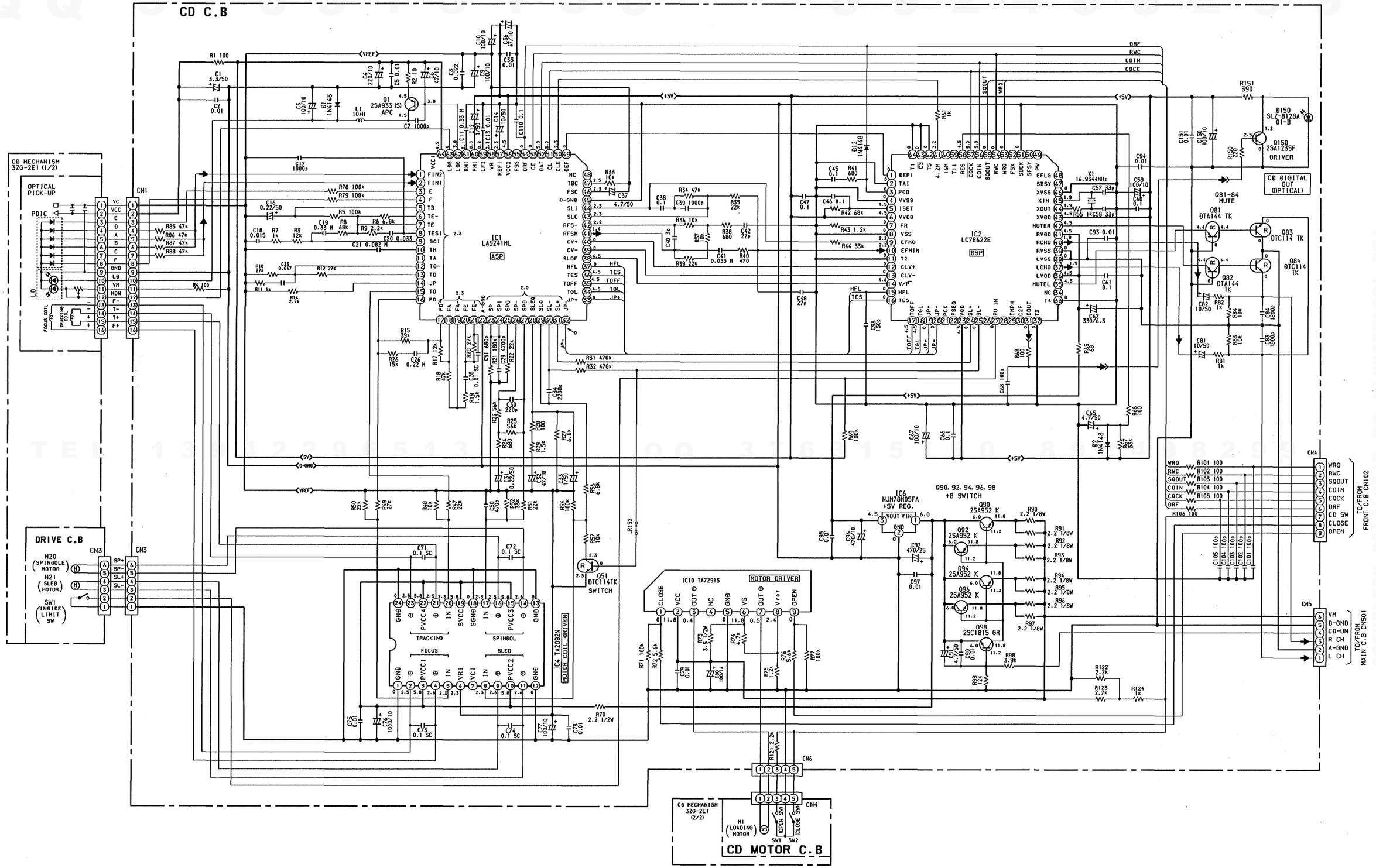
SCHEMATIC DIAGRAM-4 (CD)



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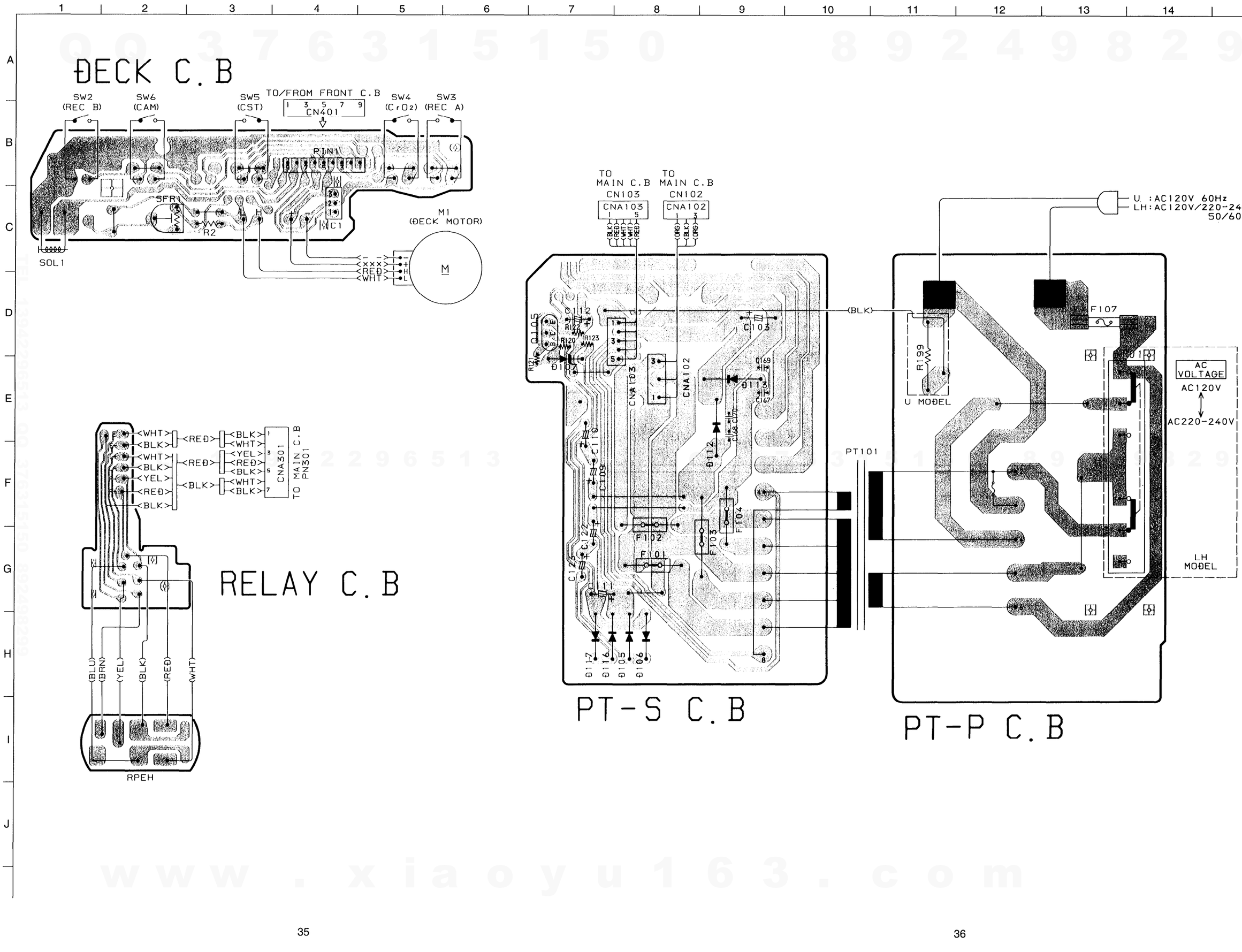
WIRING-5 (DECK/POWER)



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IC DESCRIPTION

IC, LC866448W

Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL chip enable output.
2	O-F/STB	O	Shift register data latch strobe output.
3	O-M/STB	O	
4	O-DATA	O	PLL, shift register data output.
5	O-CLK	O	PLL, shift register clock output.
6	O-$\overline{\text{SHIFT}}$	O	Clock shift output.
7	$\overline{\text{RESET}}$	I	Microprocessor reset.
8	I-$\overline{\text{STEREO}}$	I	Tuner Stereo detection.
9	I-$\overline{\text{TUNE}}$/IFC	I	PLL, data output.
10	VSS1	—	GND.
11	CF1	I	Connected to 5.76 MHz oscillator.
12	CF2	O	
13	VDD1	—	Power supply of microprocessor (μ-com5V).
14, 15	I-KEY0, I-KEY1	I	Key AD input.
16	I-ENC1	I	Encoder A, B status detection input.
17	I-ENC2	I	
18	I-CD SW	I	CD door status detection input.
19	I-D SW	I	DECK REC status detection input.
20	I-SIG/I-MS	I	RDS signal level input.
21	I-RD/DATA	I	RDS data output.
22	I-RD/CLK/I-DRF	I	Clock output/RF detection result output.
23	I-$\overline{\text{AC OFF}}$	I	HOLD status detection input.
24	I-RMC	I	Remote control input.
25-35	G1-G11	O	FL tube grid output.
36	N.C	—	—
37-40	P1-P4	O	FL tube anode output.
41	VDD2	—	Power supply of microprocessor (μ-com5V).
42	VP	—	Negative (-) power supply for FL tube.
43-46	P5-P8	O	FL tube anode output.
47	P9	O	FL tube anode output & initialize input.
48-51	P10-P13	O	FL tube anode output.
52	P14	O	FL tube anode output & Initial input.
53-58	P15-P20	O	FL tube anode output.
59	P21	O	FL tube anode output & initialize input.
60	P22	O	FL tube anode output.
61	O-CLOSE	O	CD door CLOSE control output.
62	O-OPEN	O	CD door OPEN control output.
63	O-KEY SC	O	Initial diode matrix detection timing.
64	O-BBE B	O	BBE control output.
65	O-$\overline{\text{POWER}}$	O	Machine's power control output.
66	O-$\overline{\text{MOTOR}}$	O	DECK motor power control output.

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Pin No.	Pin Name	I/O	Description
67	O-$\overline{PL}$	O	DECK plunger solenoid control output.
68	O-MUTE	O	Mute output.
69	I-AS	I	DECK auto pulse input.
70	I-STOP	I	DECK stop input.
71	I-MS	I	DECK music sensor input.
72	I-TM BASE	I	Reference clock input for watch.
73	VSS2	—	GND.
74	O-COIN	O	DSP command output.
75	I-SQ OUT	I	Subcode Q data.
76	O-CQCK	O	DSP command/Subcode clock.
77	O-WRC	O	DSP command/Sub Q data read end.
78	I-WRQ	I	Sub Q data read request.
79	O-BBE A	O	BBE control output.
80	O-VOL	O	VOL, EQ control output.

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IC, LA9241M

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE–	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD–	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD–	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD– and FA– pins.
19	FA–	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE–	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	NC	—	No connection.
24	SP	O	Single ended output of the CV+ and CV– pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP–	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL–, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP–, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

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Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	"High Frequency Level" is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV–, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS–	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (± search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

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IC, LC78622E

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK–	O	Disc motor control output. Three level output is possible using command.	
14	V/$\overline{P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP–	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24-28	CONT1-CONT5	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

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Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	$\overline{\text{RES}}$	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

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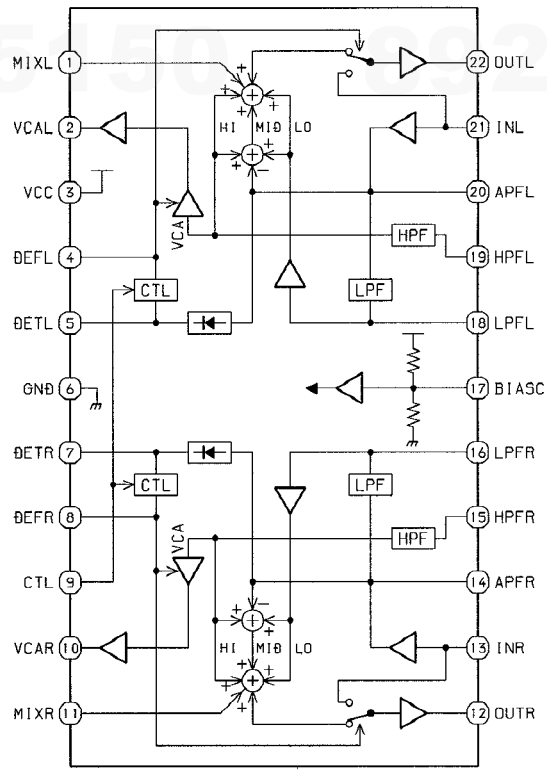
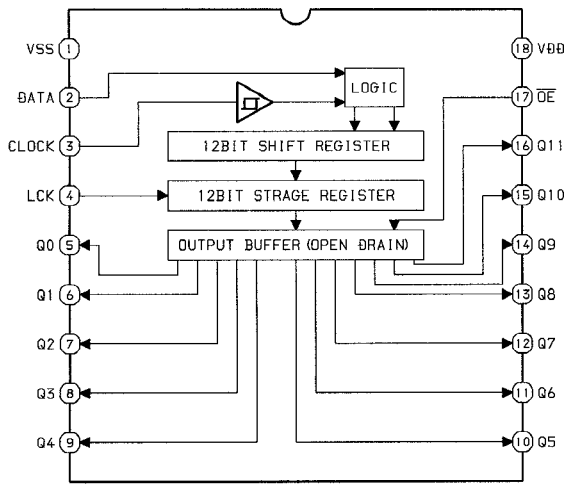
IC BLOCK DIAGRAM

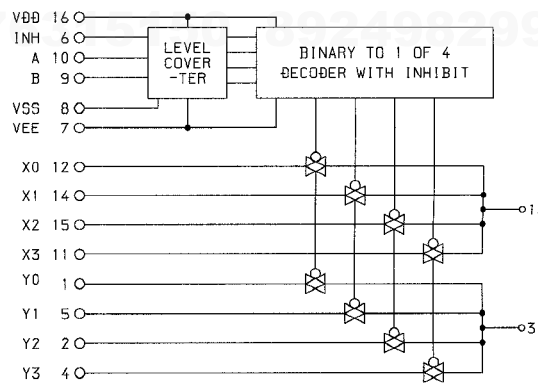
IC, BA3880S



IC, BU2092F

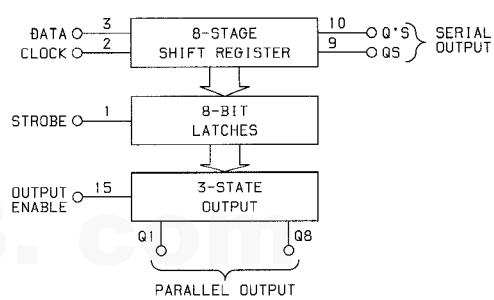


IC, BU4052BCF



TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE



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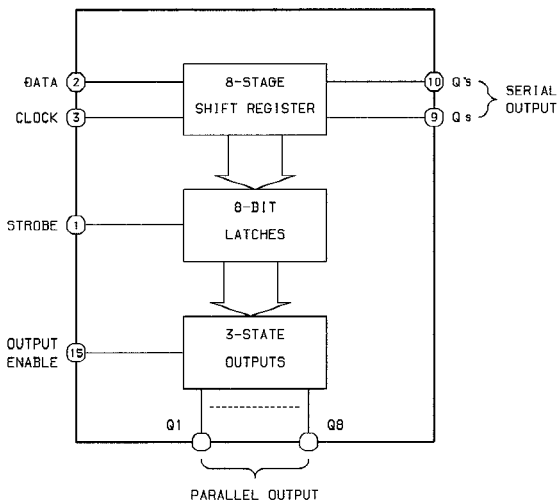
IC, BU4094BF



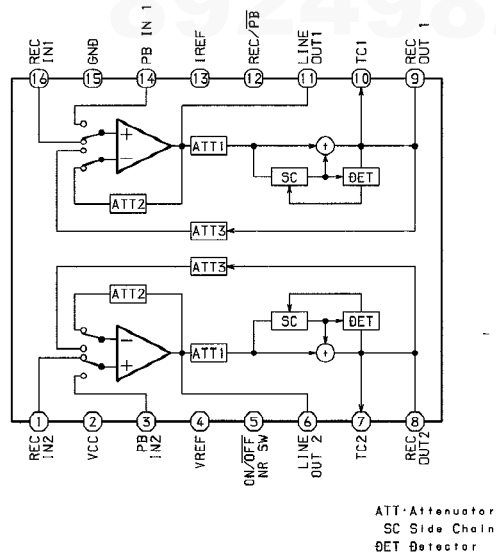
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	NO Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

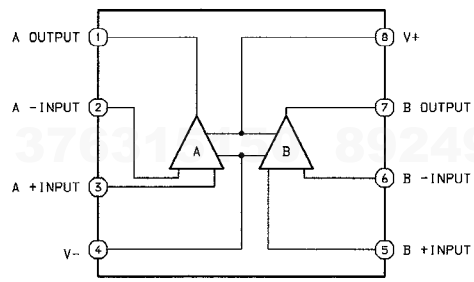
Z=High Impedance

X=Don't Care

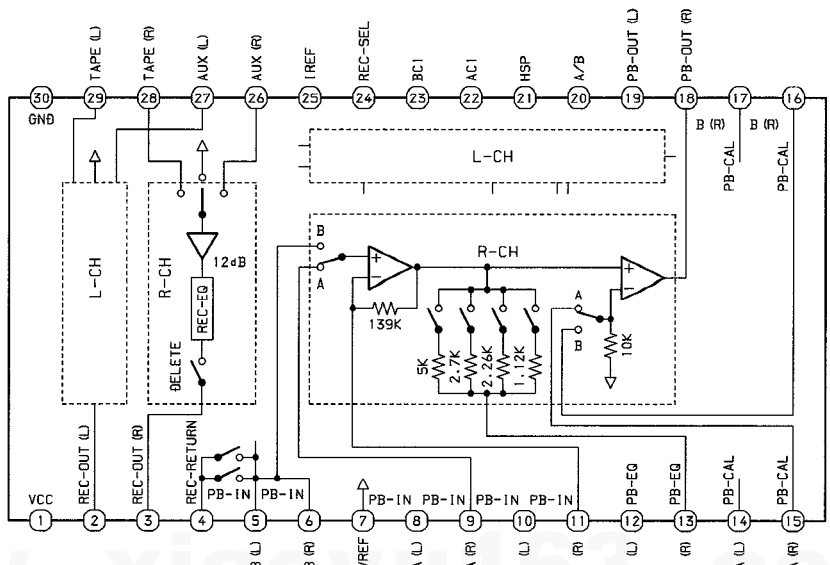
IC, CXA1553P



IC, NJM4558M



IC, HA12211NT



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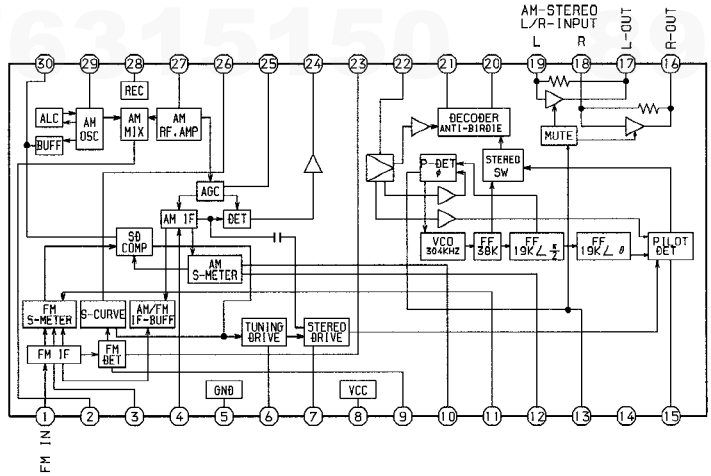
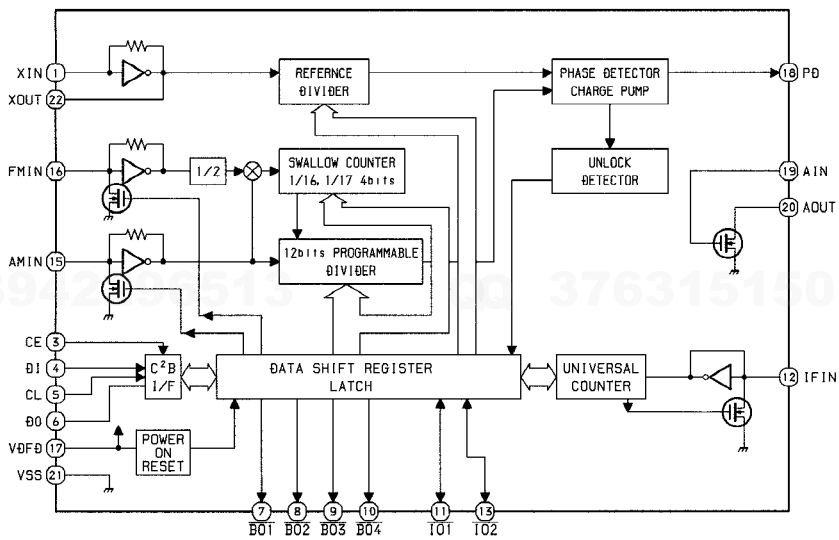
IC, LA1837



IC, LC72131



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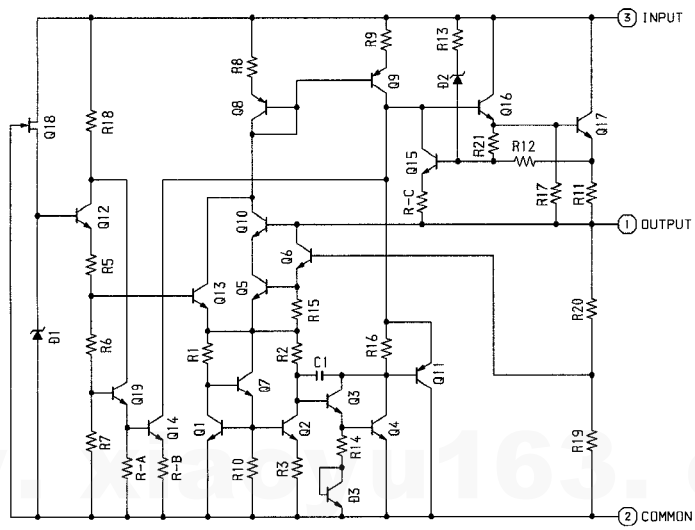

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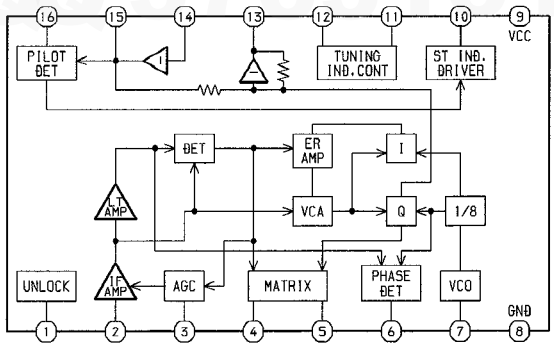
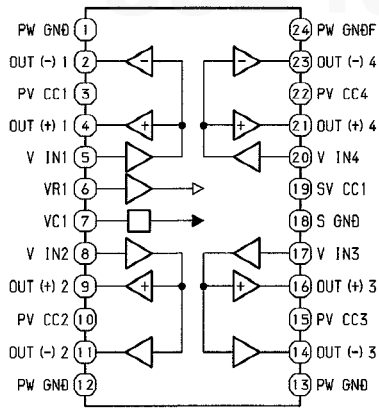
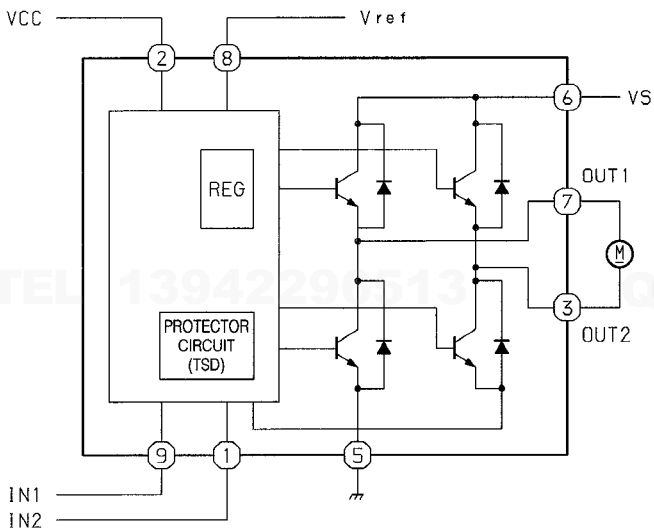
IC, TA2040F



IC, TA2092



IC, TA7291S

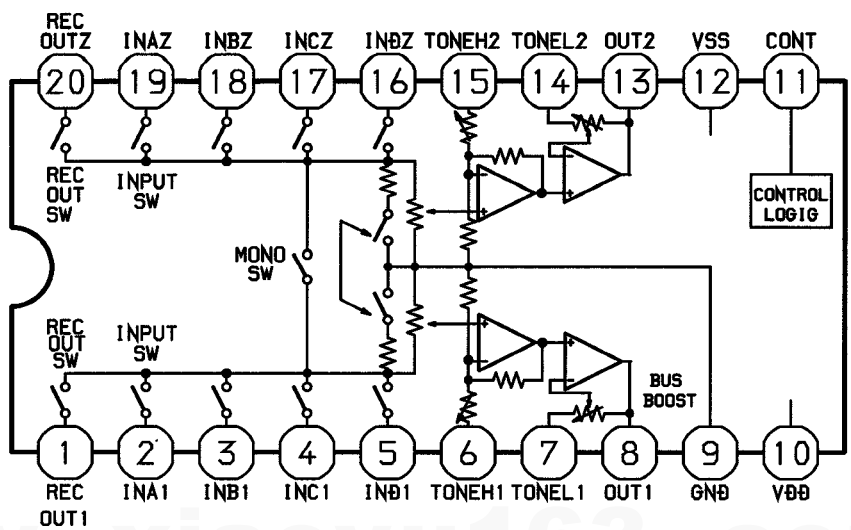


INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

∞ HI IMPEDANCE

NOTE : INPUT "H" ACTIVE

IC, M62439SP



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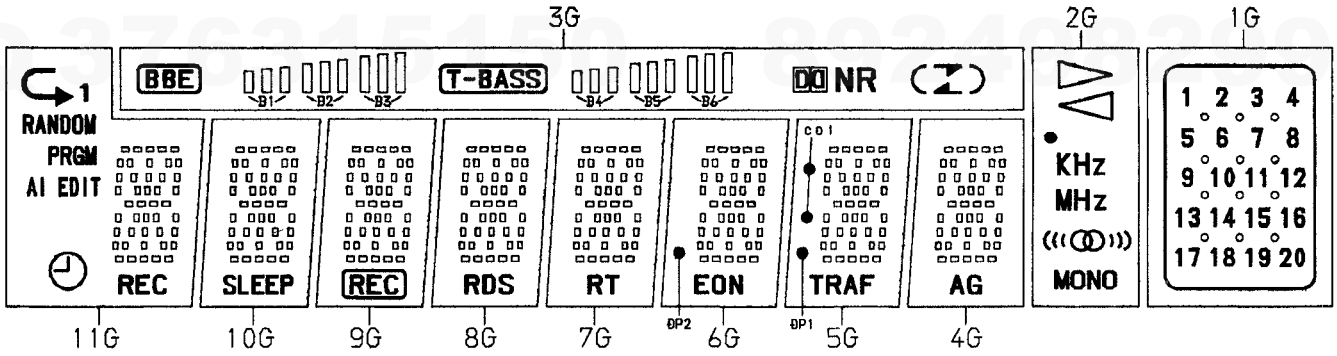
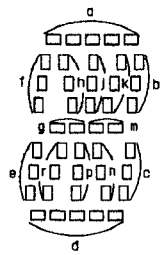
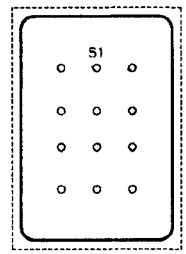
FL (11-BT-162GK) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT





(11G ~ 4G)



(1G)

ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	REC	SLEEP	REC	RDS	RT	EON	TRAF	AG	BBE	MONO	20
P2	d	d	d	d	d	d	d	d	B1	(( ))	19
P3	n	n	n	n	n	n	n	n	B2	MHz	18
P4	p	p	p	p	p	p	p	p	B3	KHz	17
P5	r	r	r	r	r	r	r	r	T-BASS	○	16
P6	e	e	e	e	e	e	e	e	B4	◁	15
P7	c	c	c	c	c	c	c	c	B5	▷	14
P8	g	g	g	g	g	g	g	g	B6	–	13
P9	m	m	m	m	m	m	m	m	DD NR	–	12
P10	f	f	f	f	f	f	f	f	☾	–	11
P11	b	b	b	b	b	b	b	b	Z	–	10
P12	k	k	k	k	k	k	k	k	☽	–	9
P13	j	j	j	j	j	j	j	j	–	–	8
P14	h	h	h	h	h	h	h	h	–	–	7
P15	a	a	a	a	a	a	a	a	–	–	6
P16	RANDOM	–	–	–	–	–	col (L)	–	–	–	5
P17	◴	–	–	–	–	–	col (T)	–	–	–	4
P18	1	–	–	–	–	DP2	DP1	–	–	–	3
P19	PRGM	–	–	–	–	–	–	–	–	–	2
P20	AI	–	–	–	–	–	–	–	–	–	1
P21	EDIT	–	–	–	–	–	–	–	–	–	S1
P22	↩	–	–	–	–	–	–	–	–	–	–

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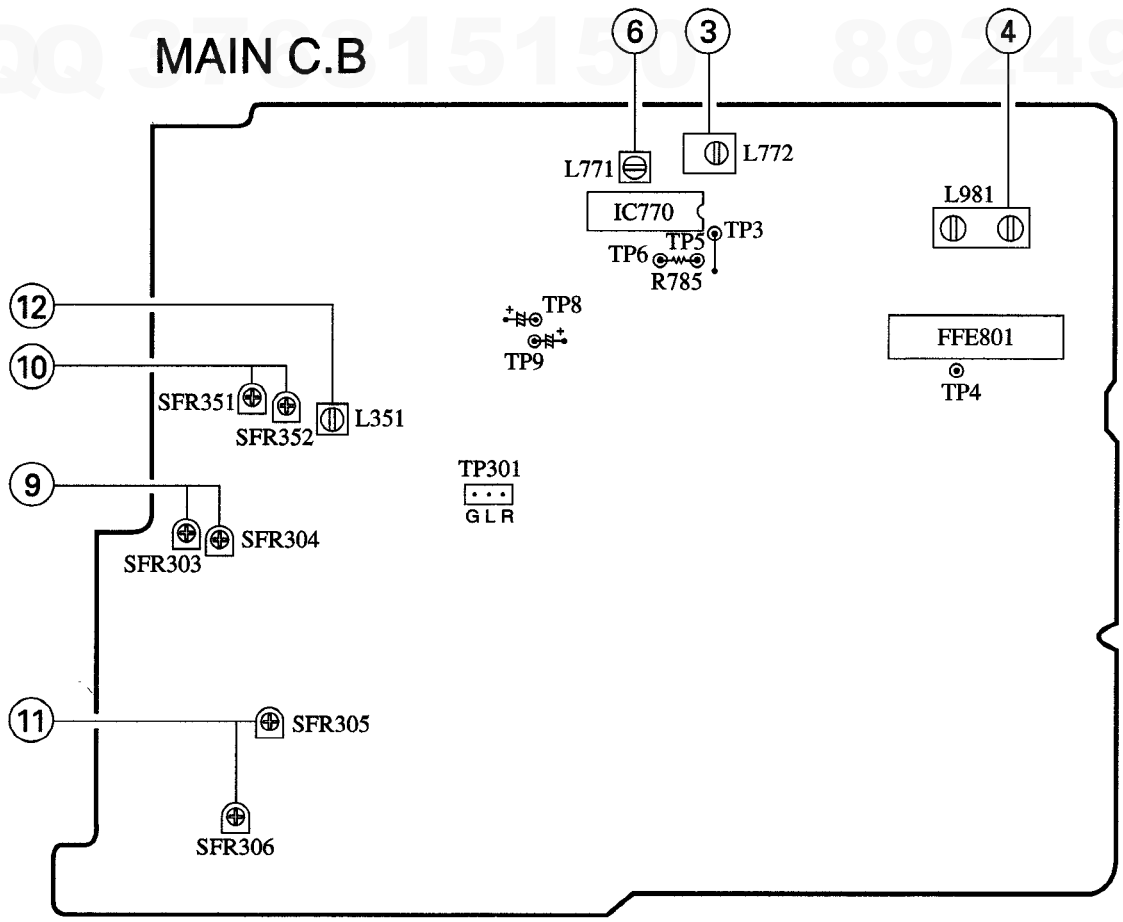

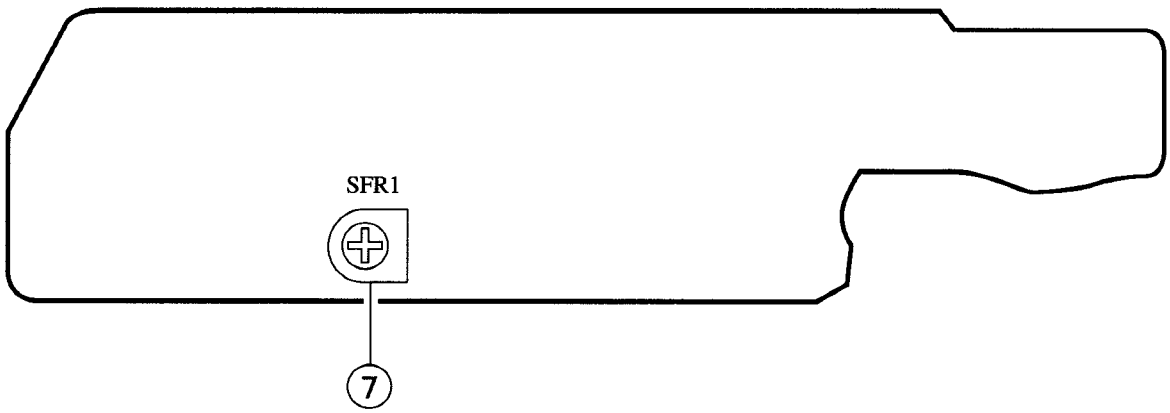

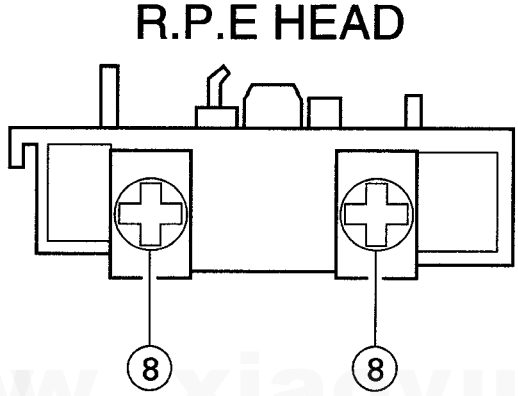

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< TUNER SECTION >

1. Clock Frequency Check
   Settings: • Test point: TP3 (CLK IC770 pin30)
   Method: Set to AM 1710kHz and check that the test point becomes 2160kHz±45kHz.

2. AM VT Check
   Settings: • Test point: TP4 (VT)
   Method: Set to AM 1710kHz and check that the test point is less than 7.0V.
   Then set to AM 530kHz and check that the test point is more than 0.3V.

3. AM IF Adjustment
   Settings: • Test point: TP8, TP9
   L772 ..... 450kHz

4. AM Tracking Adjustment
   Settings: • Test point: TP8, TP9
   • Adjustment location: L981
   Method: Set to AM 1000kHz and adjust L981 so that the test point becomes maximum.

5. FM VT Check
   Settings: • Test point: TP4 (VT)
   Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.5V (108.0MHz).

6. DC Balance/Mono Distortion Adjustment
   Settings: • Test point: TP5, TP6
   • Adjustment location: L771
   • Input level: 54dB
   Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V±0.04V.
   Next, check that the distortion is less than 1.3%.

< DECK SECTION >

7. Tape Speed Adjustment
   Settings: • Test tape: TTA-100
   • Test point: TP301
   • Adjustment location: SFR1
   Method: Playback the test tape by DECK2 and adjust SFR1 so that the frequency counter reads 3000Hz±5Hz. Check that the counter reading in the REV mode is within the range of ±45Hz of that in the FWD mode.

8. Azimuth Adjustment
   Settings: • Test tape: TTA-300
   • Test point: TP301
   • Adjustment location: Head azimuth adjustment screw
   Method: Playback the 10kHz signal of the test tape and adjust the adjustment screw so that the output becomes the -5dB point below the maximum reading. The adjustment must ends with the clockwise rotation of the adjustment screw. Perform this adjustment in both FWD and REV directions. Fix the adjustment screw with adhesive agent upon completion of adjustment.

9. PB Sensitivity Adjustment
   Settings: • Test tape: TTA-200
   • Test point: TP301
   • Adjustment location:
   SFR303 (Lch)
   SFR304 (Rch)
   Method: Play back the test tape and adjust SFRs so that the output level of the TP301 becomes 245mV.

10. REC/PB Frequency Response Adjustment
    Settings: • Test tape: TTA-602
    • Test point: TP301
    • Input signal: 1kHz/10kHz (LINE IN)
    • Adjustment location: SFR351 (Lch)
    SFR352 (Rch)
    Method: Establish the record mode. Input the 1kHz and the 10kHz signals from LINE IN with the input level so that TP301 has the signal level of 12mV. Record the 1kHz and the 10kHz signals, then play them back. Adjust SFR so that the output difference between the 1kHz and the 10kHz signals becomes 0dB±0.5dB.

11. REC/PB Sensitivity Adjustment
    Settings: • Test tape: TTA-602
    • Test point: TP301
    • Input signal: 1kHz /10kHz (LINE IN)
    • Adjustment location: SFR305 (Lch)
    SFR306 (Rch)
    Method: Establish the record mode. Input the 1kHz signal from LINE IN with the input level so that TP301 has the signal level of 12mV. Record the 1kHz signal, then play it back. Adjust SFR so that the output level becomes 12mV±0.5dB.

12. Bias OSC Frequency Adjustment
    Settings: • Test tape: TTA-601
    • Test point: TP10 (R311)
    • Adjustment location: L351
    Method: Set to the REC mode. Adjust L351 so that the frequency at TP10 is 85.0kHz±1kHz.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

<FM SECTION>

IHF Sensitiviy: (THD 3%)	4dB±6dB (at 87.5/98.0MHz) 5dB±6dB (at 108MHz)
Signal to noise ratio:	More than 65dB (at 98.0MHz)
Distortion: (Input: 54dB)	Less than 1.3% (at 98.0MHz)
Stereo separation:	More than 25dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

<AM SECTION>

Sensitivity: (S/N 20dB)	54dB±6dB (at 600kHz) 52dB±6dB (at 1000/1400kHz)
Signal to noise ratio: (Input: 100dB)	41dB±36dB (at 1000kHz)
Distortion:	Less than 1.5% (at 1000kHz)
Intermediate frequency:	450kHz

< DECK SECTION >

Tape speed:	3000Hz±2.0%
Wow & flutter: (W.R.M.S)	Less than 0.21%
Take-up torque:	30-55g-cm (FWD, REV)
F.F torque:	75-160g-cm
REW torque:	75-160g-cm
Back tension:	3±4g-cm (FWD, REV)
PB Output level:	450mV±2dB (LINE OUT)
REC/PB Output level:	300mV±2dB (LINE OUT)
Distortion (REC/PB):	Less than 2% (NORM, CrO_2)
Noise level (PB):	Less than 3mV (DOLBY NR OFF, NORM) Less than 2mV (DOLBY NR ON, CrO_2)
Noise level (REC/PB):	Less than 3.2mV (DOLBY NR OFF, NORM) Less than 2.2mV (DOLBY NR ON, CrO_2)
Erasing ratio:	More than 60dB (125Hz)
REC bias frequency:	85kHz
Test tape:	NORMAL TTA-100 TTA-300 TTA-601 TTA-602
	CrO_2 TTA-200

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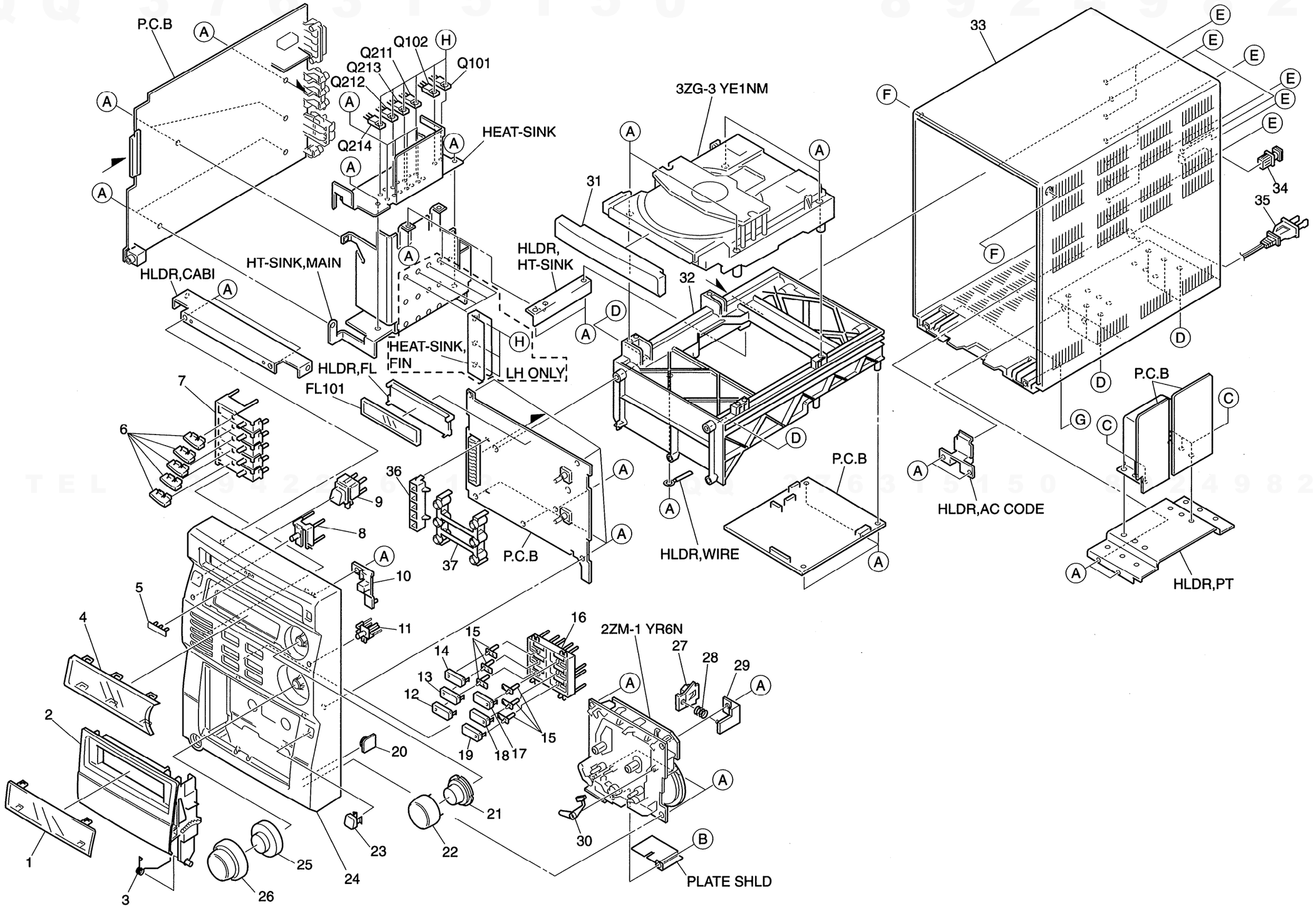
MECHANICAL EXPLODED VIEW 1/1



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MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-CE3-006-010		WINDOW,CASS
2	88-CE3-003-010		BOX,CASS
3	87-CE3-202-010		SPR-T,CASS
4	88-CE3-005-010		WINDOW,DISP
5	87-CE3-023-010		BADGE,AIWA 30N SILV
6	88-CE3-012-010		CAP, FUNC
7	88-CE3-010-010		BTN,FUNC
8	88-CE3-021-010		BTN,DEMO
9	88-CE3-019-010		BTN,POWER
10	88-CE3-020-010		BTN,EJECT
11	88-CE3-022-010		BTN,MODE
12	88-CE3-018-010		CAP, PAUSE
13	88-CE3-016-010		CAP, REW
14	88-CE3-013-010		CAP, STOP
15	88-CE3-007-010		LENS,CONT
16	88-CE3-210-010		BTN,CONT
17	88-CE3-014-010		CAP, PLAY
18	88-CE3-015-010		CAP, FF
19	88-CE3-017-010		CAP, REC
20	87-063-165-010		OIL-DMPR 150
21	88-CE3-209-010		KNOB,RTRY JOG
22	88-CE3-011-010		CAP, JOG
23	88-CE3-008-010		WINDOW,RC
24	88-CE3-001-010		CABI,FR
25	88-CE3-208-010		KNOB,RTRY VOL
26	88-CE3-009-010		CAP, VOL
27	82-NF5-227-010		HLDR,LOCK 2N
28	88-CE3-211-010		SPR-C,LOCK
29	82-NF5-229-010		PLATE,LOCK
30	82-ZM1-264-010		LVR,EJECT R
31	88-CE3-004-010		PANEL,CD
32	88-CE3-201-010		CHAS,CD
33	88-CE3-028-010		CABI,REAR H<LH>
33	88-CE3-027-010		CABI,REAR U<U>
34	84-ZG1-245-210		CAP,OPTICAL
⚠ 35	87-050-053-010		AC CORD ASSY,U-2<U>
⚠ 35	87-050-079-010		AC-CORD ASSY,E<LH>
36	88-CE3-202-010		GUIDE,FUNC LED
37	88-CE3-203-010		GUIDE,CONT LED
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-571-032-410		VIT+2-3
C	87-067-584-010		TAPPING SCREW, BVT2+3-6
D	87-067-581-010		TAPPING SCREW, BVT2+3-15
E	87-067-761-010		BVT2+3-10 BLK
F	87-744-094-410		UT2+3-6 W/O SLOT CR
G	87-651-104-410		VT1+3-30
H	87-067-579-010		TAPPING SCREW, BVT2+3-8

< SPEAKER SECTION >

1	88-CL3-941-010		PANEL,SX-MD85 FR
2	88-CL3-942-010		GRILLE,SX-MD85 FRAME
3	88-CL3-943-010		GRILLE,SX-MD85 PLATE
4	88-CL3-944-010		BADGE,AIWA 30
5	87-NSG-606-010		SPKR,TW60
6	88-CL3-948-010		SPKR,W 130

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TAPE MECHANISM PARTS LIST 1/1

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If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-210		CHAS ASSY,RN
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-341-010		LVR ASSY,PINCH L 2
4	82-ZM1-295-310		PLATE ASSY,LINK
5	82-ZM1-266-110		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-810		CHAS,HEAD
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM3-323-010		SPR-T,LINK 3
11	82-ZM1-210-110		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-610		GUIDE,TAPE
14	82-ZM1-283-310		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-110		HLDR,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM1-264-010		LVR,EJECT R
19	82-ZM1-222-210		LVR,PLAY
20	82-ZM1-217-310		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM1-241-310		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-344-010		LVR ASSY,PINCH R
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-110		LVR,REC
30	82-ZM1-298-010		SPR-P,EARTH
31	82-ZM1-255-310		SPR-E,LVR DIR
32	82-ZM1-221-110		GEAR,CAM
33	82-ZM1-227-210		LVR,TRIG
34	82-ZM1-224-410		LVR,FR
35	82-ZM1-305-110		SPR-E,TRIG 2
36	82-ZM1-239-010		CAPSTAN 2.2-41.7
37	82-ZM1-223-010		GEAR,PLAY
38	82-ZM1-322-010		SPR-T,FR 60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-310		GEAR,REEL
42	82-ZM1-236-010		CAPSTAN,2-41.5
43	82-ZM1-225-010		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-210		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT,FR 4
47	82-ZM1-349-010		FLY-WHL,RH
48	82-ZM1-348-010		FLY-WHL,LW
49	82-ZM1-340-010		BEKT,SBU MAIN 2
50	82-ZM1-245-210		HLDR,IC
51	82-ZM1-246-010		HLDR,MOTOR
52	82-ZM1-247-110		PULLEY,MOTOR
53	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
55	87-045-347-010		MOT,SHU 2L 70(M1)
56	87-046-399-010		HEAD,RPH YK56R-BS409(RPH)
A	82-ZM1-315-010		S-SCREW,GUIDE TAPE
B	80-ZM6-207-010		V+1.6-7
C	87-251-070-410		U+2.6-3
D	87-741-073-410		UT2+2.6-6 GLD
E	87-B10-008-010		PW,2.15-6.8-0.4 SLT
F	82-ZM3-334-010		PW,2.16-6-0.4

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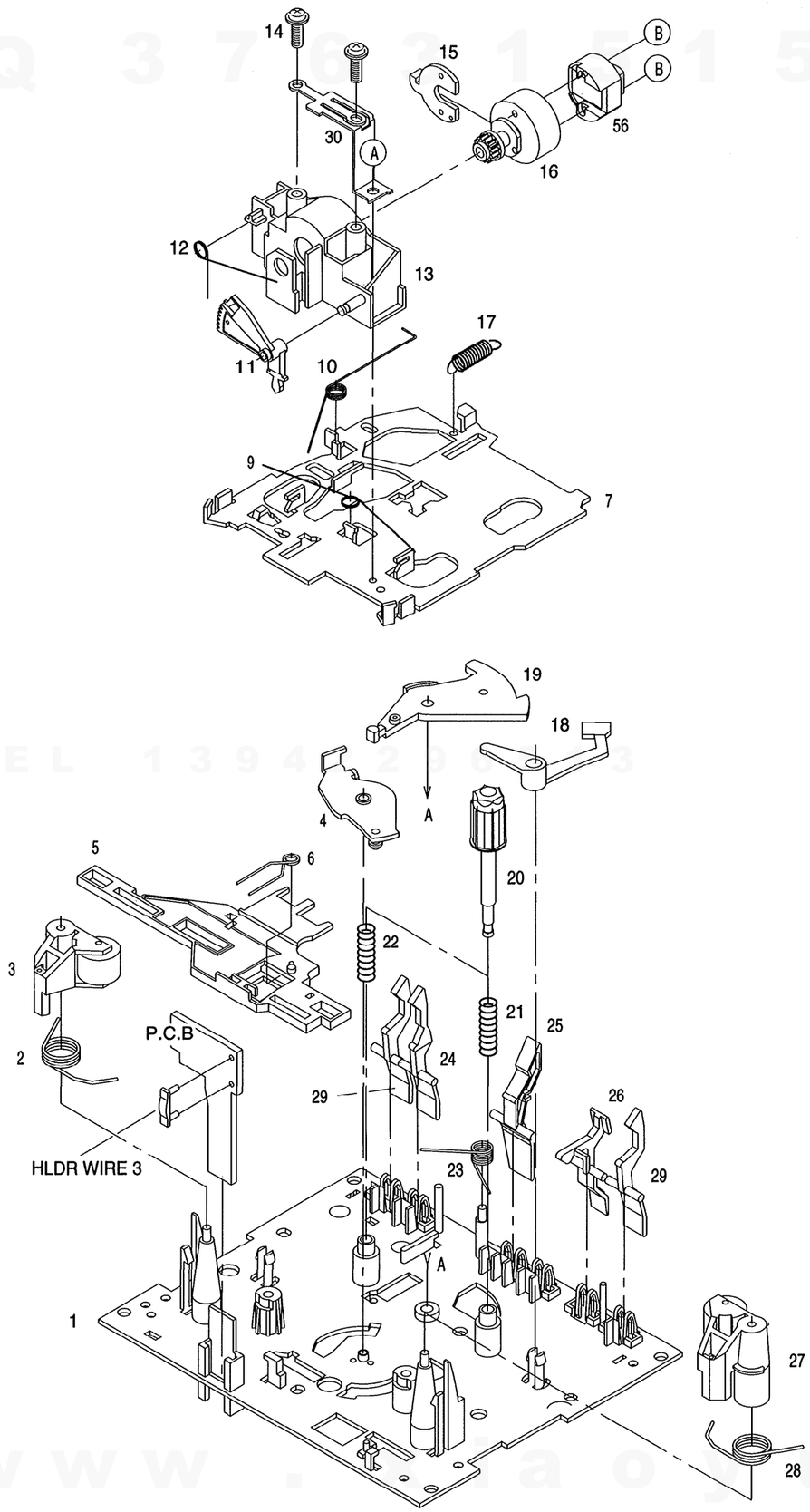
TAPE MECHANISM EXPLODED VIEW 1/1



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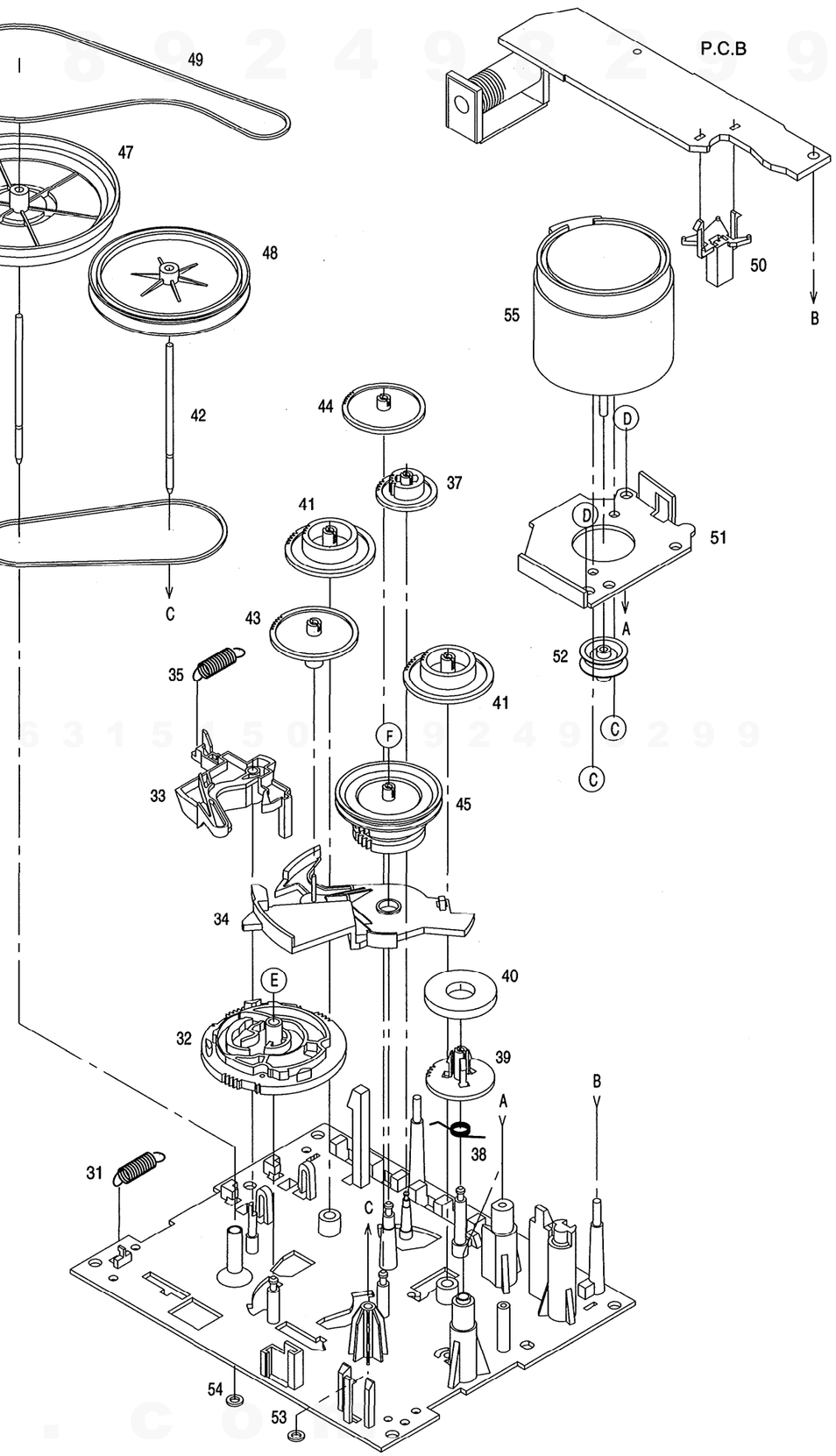

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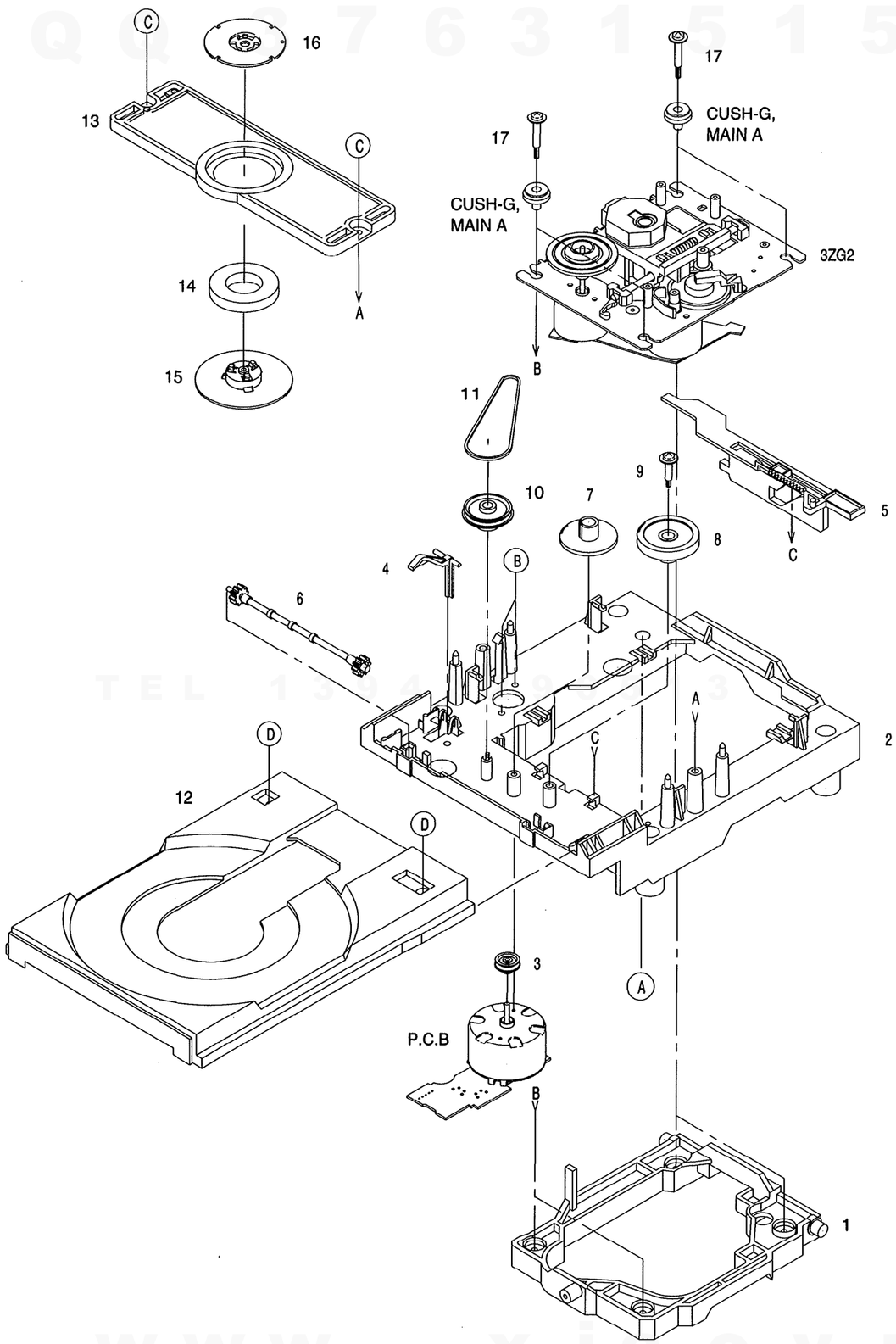
CD MECHANISM EXPLODED VIEW 1/2



CD MECHANISM PARTS LIST 1/2

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-224-310		HLDR,M2
2	83-ZG3-228-610		CHAS,L6
3	83-ZG3-208-010		PULLEY,MOTOR
4	83-ZG3-213-010		LVR,SW
5	83-ZG3-209-610		CAM,SLIDE
6	83-ZG3-207-010		GEAR,TRAY
7	83-ZG3-204-210		GEAR,C
8	83-ZG3-205-010		GEAR,D
9	83-ZG3-217-010		S-SCREW,GEAR D
10	83-ZG3-220-210		GEAR,PULLEY 2
11	83-ZG3-214-010		BELT,L
12	83-ZG3-229-410		TRAY,CD 2
13	83-ZG3-230-010		HLDR,CHUCK 2
14	83-ZG3-602-010		RING,MAG
15	83-ZG3-212-010		CAP,DISC
16	83-ZG3-219-010		PLATE,CLAMP
17	81-ZG1-254-010		S-SCEW,MECH HLDR
A	87-067-945-110		VFT2+3-12(F10)
B	87-251-071-110		U+2.6-4
C	87-512-074-210		VFT2+2.6-8
D	87-352-075-210		VT2+2.6-10

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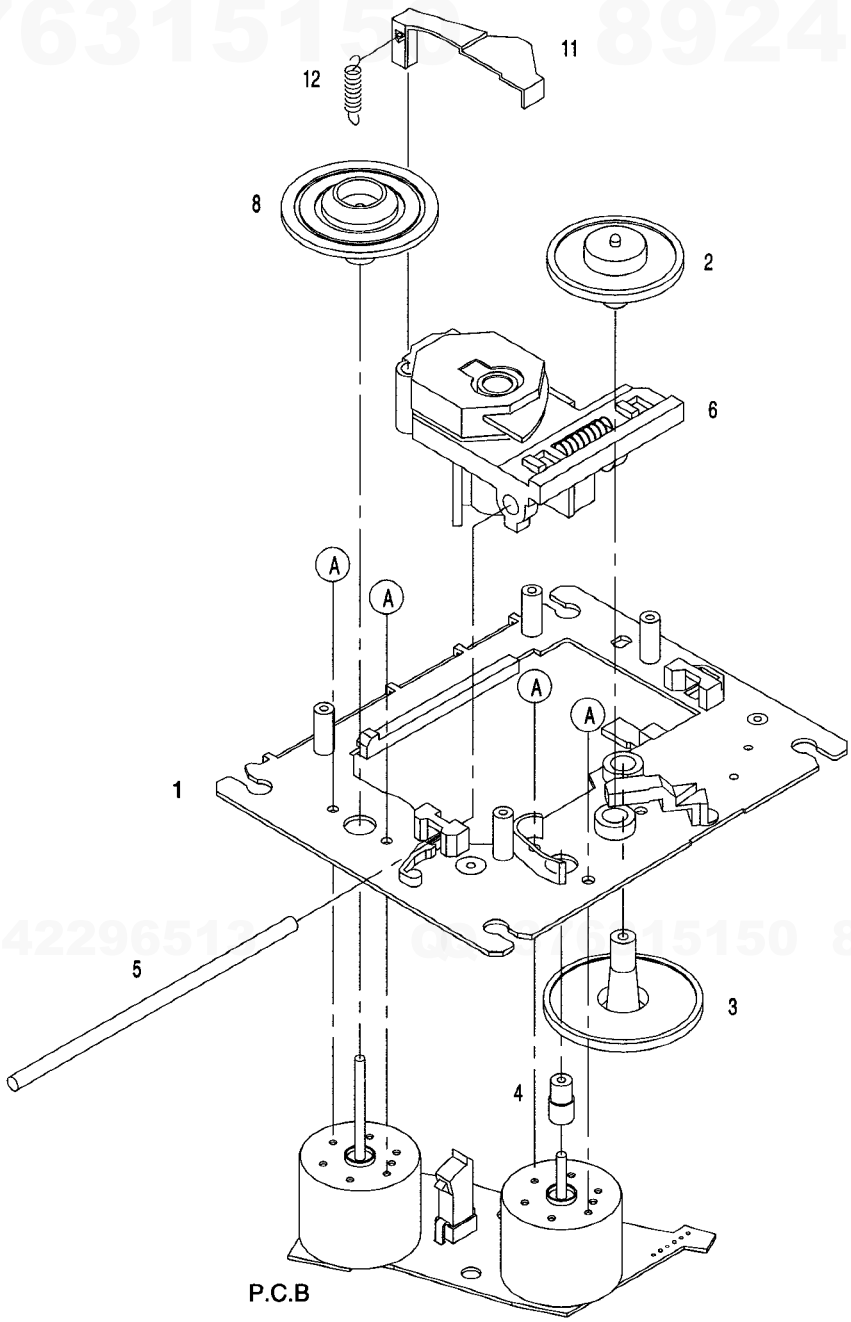
CD MECHANISM EXPLODED VIEW 2/2



CD MECHANISM PARTS LIST 2/2

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

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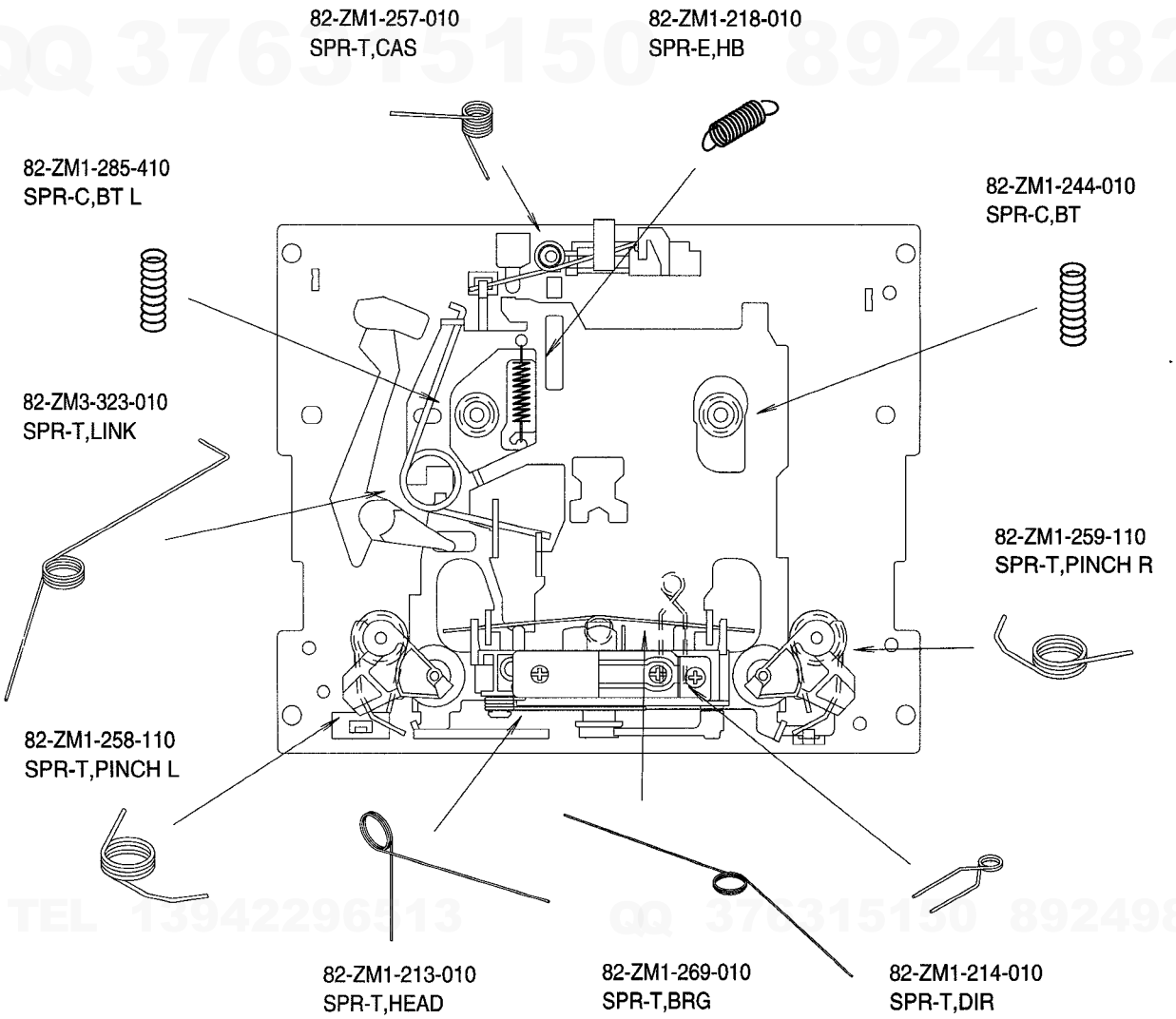
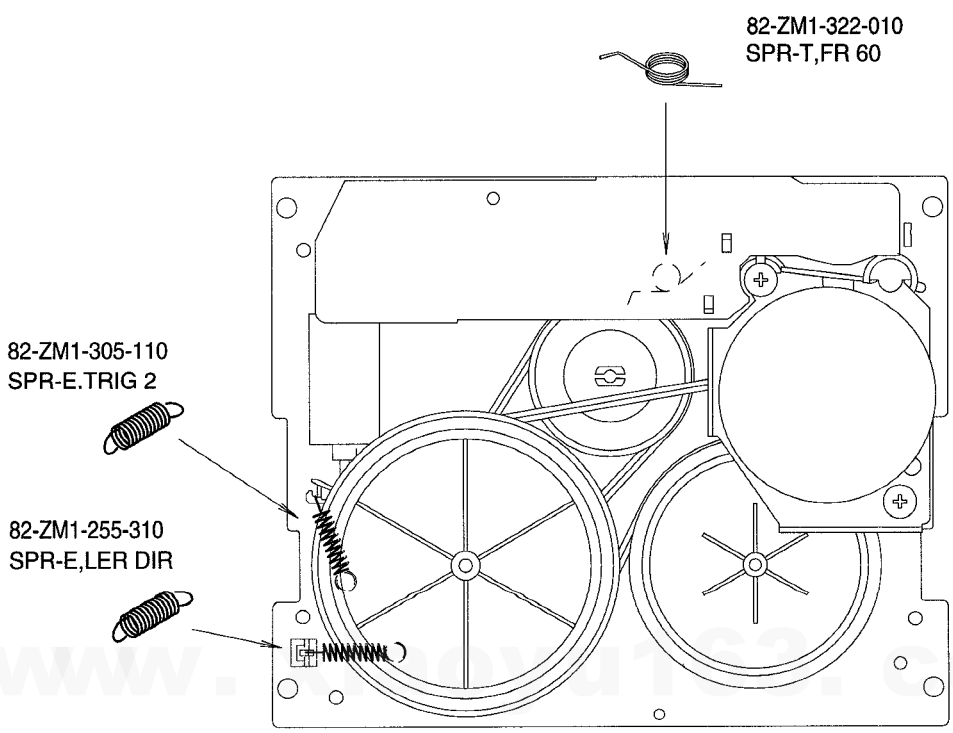
SPRING APPLICATION POSITION





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REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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